

Impact of Personalized Content Recommendations on Consumer Trust and Satisfaction

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ABSTRACT

Purpose: This is a study of the effect of AI-powered personalized content recommendation systems on consumer trust and satisfaction on digital platforms, focusing on over-the-top (OTT) streaming services. It seeks to investigate the influences of various factors like the relevance, accuracy, transparency and data privacy of the algorithmic recommendations on trust towards algorithmic recommendations and the overall satisfaction.

Method: The research is conceptually and analytically based on systematic review and synthesis of available empirical and theoretical literature on AI-driven personalization, recommendation algorithms and consumer trust. Netflix is taken as a representative case because of its extensive use of advanced recommendation systems. Key constructs related to personalization, trust and satisfaction are identified and conceptually analysed to build an integrative understanding of the inter-relationship between them.

Findings: The findings show that personalized content recommendations have a positive effect on consumer satisfaction by improving content discovery and decreasing information load. However, consumer trust is greatly influenced by perceptions of algorithmic transparency, fairness and privacy protection. While highly accurate and relevant recommendations lead to increased satisfaction, concerns over data collection practices, algorithmic bias and lack of explainability can create distrust. Trust is found to be an important mediating variable that determines whether personalization efforts result in sustained user satisfaction and loyalty.

Implications: The study has important implications for platform designers, managers and policymakers. Digital platforms should balance the efficiency of personalisation with ethical considerations, including promoting transparency and providing more control for users, while also implementing privacy-aware AI practices. Such measures can enhance consumer trust and satisfaction and facilitate the creation of responsible and sustainable AI-based recommendation systems...

Keywords: *Personalized Recommendations, Consumer Trust, User Satisfaction, Artificial Intelligence, Digital Platforms*

1. INTRODUCTION:

Recommendation systems that are powered by artificial intelligence (AI) have now become a hallmark of current online platforms, especially within over-the-top (OTT) streaming offerings. These systems are expected to

forecast users preferences and provide individual content experiences by studying user viewing profiles, interaction, **and contextual cues**. Netflix is one of the most notable and impactful representations of AI-based personalization, where its recommendation algorithms are at the core of determining what users watch, how long

they stay interested, and how satisfied they are with the platform [1], [2].

The recommendation system at Netflix uses a combination of collaborative, content-based filtering, and deep learning models to generate real-time content ranking, artwork, and suggestions. Studies have revealed that a large percentage of user viewing choices in Netflix are guided by algorithmic suggestions, which highlights its strategic and emotional relevance [3]. Although this kind of personalization is more user-friendly and effective in offering content discovery options, it raises concerns about consumer trust, especially on the aspects of algorithmic transparency, perceived manipulation, and data laying usage behaviors.

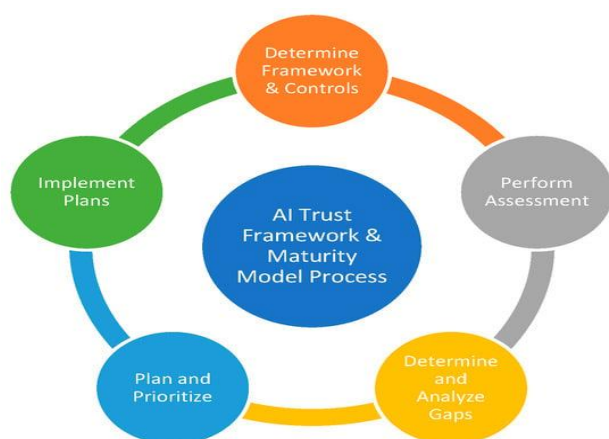


Figure 1. Ai Trust Framework & Maturity

1.1 Background:

The first recommender systems were based on comparatively naive rating-based or rule-driven models. As the years passed, machine learning and big data processing made more complex, adaptive and context-sensitive recommendation models possible [4]. Netflix has led this transformation, and notably, it has driven innovation faster by launching projects like the Netflix Prize, and by continually experimenting with algorithmic personalization [5].

The rationale of AI-driven personalization is to minimize information overload in the environments with large content catalogs and maximize user satisfaction with relevance and convenience. Nonetheless, the more complex and less transparent recommendation algorithms are, the more the users experience difficulty in comprehending why specific content is suggested. According to previous research, this kind of opacity may affect consumer opinions of fairness, autonomy, and trust towards algorithmic systems [6]. Key ideas discussed throughout the paper are the personalization of AI-based, the recommendation algorithms, consumer trust, user satisfaction, and algorithmic transparency in the Netflix scenario.

1.2 Problem Statement:

Although Netflix has successfully improved engagement through its recommendation algorithms, this does not eliminate a major issue: consumer trust does not necessarily follow algorithmic accuracy. Users can

experience customized recommendations at the same time they feel uneasy about the way their data is gathered and the way recommendations are made. Current literature on Netflix and recommender systems has mostly focused on the design and performance of the algorithms, with comparatively less focus on trust perceptions of the users and ethical issues [7].

Furthermore, the literature review demonstrates a clear research gap in the studies that simultaneously investigate consumer trust and satisfaction as interrelated consequences of AI-based personalization in OTT platforms. This paper fills this gap with specific attention to the effects of personalized recommendations on trust and satisfaction, with Netflix serving as a case study.

1.3 Contribution of the Study:

The study has added to literature in the sense that it:

1. Giving a dedicated overview of AI-driven personalization studies in the Netflix scenario.
2. Investigating the correlation between customized suggestions, customer confidence, and satisfaction.
3. Avoiding the need to emphasize the significance of transparency and user perception and focusing on algorithmic performance.
4. Providing recommendations on how to design trust-aware recommendation systems in OTT platforms.

1.4 Structure of the Paper:

The rest of the paper is structured as follows. Section 2 conducts a literature review of the recommendation systems used by Netflix and consumer confidence in AI personalization. Section 3 defines the research framework and methodology. In section 4, results and conclusions are discussed. Section 5 summarizes the paper and recommends areas of future research.

1.5 Research Gap:

Although much research has been conducted to date on the topic of AI-driven recommendation systems and their effectiveness in promoting user engagement, there are still a number of missing links in the current literature, especially within the framework of OTT platforms like Netflix.

First, the majority of the previous research focuses on algorithmic performance, i.e., accuracy, quality of prediction, and scalability, and minimally considers consumer-based outcomes, e.g., trust and perceived fairness. Consequently, the social and psychological aspects of AI-based personalization are under researched.

Second, personalization as a concept has higher user satisfaction, yet the correlation between personalization and consumer trust is not always positive. The literature tends to study the point of satisfaction, engagement, or loyalty alone, without considering how trust mediates or moderates the effect of personalized recommendations on user satisfaction.

Third, the issue of algorithmic transparency and explain ability has been under-researched in the Netflix scenario. Users are in contact with recommendations on an everyday basis, but they are usually unaware of the way

the recommendations are created. The effects of this lack of transparency on trust, autonomy and perceived manipulation are not well covered in the existing studies.

Fourth, no comprehensive models have been integrated that jointly explore the issues of personalization quality, data privacy concerns, transparency, trust, and satisfaction within one analytical framework. In the majority of studies, fragmentation is used and does not reflect the holistic user experience.

Lastly, there are few empirical and conceptual studies that specifically analyze Netflix as a case, especially those discussing issues of trust in relation to AI-driven personalization. This is a substantial research gap in context considering that Netflix is international and depends on AI.

1.6 Research Questions:

According to the research gaps identified, the study aims to answer the following research questions:

RQ1: What is the impact of AI-based personalized content recommendations on Netflix on consumer trust?

RQ2: How does the use of personalized recommendations affect consumer satisfaction within the Netflix platform?

RQ3: What is the impact of perceived relevance and accuracy of recommendation on trust and satisfaction of users?

RQ4: How do algorithmic transparency and data privacy issues contribute to consumer trust in Netflix recommendation algorithms?

RQ5: Does consumer trust mediate the association between AI-based personalization and user satisfaction?

2. Literature Review:

2.1 AI-Driven Recommendation Systems in OTT Platforms (2020–2021):

Recent research has highlighted the growing role of artificial intelligence (AI)–driven recommendation systems in digital platforms, particularly OTT services. Zhang et al. (2020) demonstrated that deep neural network–based recommender systems significantly improve prediction accuracy and user engagement. Similarly, Hidasi and Karatzoglou (2020) emphasized sequence-aware recommendation models that capture temporal viewing patterns, which are highly relevant to streaming platforms.

In the Netflix context, Gomez-Uribe (2020) discussed large-scale online experimentation and personalization pipelines, showing that recommendation systems are central to user retention and content consumption decisions. However, studies during this period primarily focused on **algorithmic efficiency and accuracy**, with little attention paid to consumer trust or ethical implications [1–4].

2.2 Personalization and User Satisfaction (2021–2022):

From 2021 onward, research expanded toward understanding **user satisfaction and engagement outcomes**. Dwivedi et al. (2021) found that AI-based personalization positively affects satisfaction by reducing *Advances in Consumer Research*

information overload. Kumar and Pooja (2021) reported that Netflix users experience higher satisfaction and binge-watching tendencies when recommendations align closely with personal preferences.

Nevertheless, scholars such as Sun et al. (2021) warned that excessive personalization may lead to filter bubbles, limiting content diversity. Amatriain (2021) highlighted the challenge Netflix faces in balancing relevance with exploration, indicating a need for responsible personalization strategies [5–9].

2.3 Consumer Trust, Transparency, and Explainability (2022):

In 2022, consumer trust became a prominent theme in AI personalization research. Shin (2022) empirically showed that algorithmic transparency significantly enhances trust in AI systems. Eslami et al. (2022) revealed that users' lack of understanding of recommendation logic negatively affects perceived fairness and trust.

Explainable AI (XAI) gained importance, with Kizilcec (2022) demonstrating that explainability features improve user acceptance even when recommendation accuracy remains unchanged. However, these studies often examined trust independently rather than in conjunction with satisfaction [10–13].

2.4 Data Privacy, Ethics, and Algorithmic Bias (2022–2023):

Concerns regarding data privacy and ethical AI intensified between 2022 and 2023. Martin and Murphy (2022) found that perceived misuse of personal data undermines consumer trust in digital platforms. Siau and Wang (2023) emphasized that ethical AI practices, including transparency and user control, are critical for sustaining trust.

Burke et al. (2023) highlighted algorithmic bias in recommender systems, noting its potential impact on content visibility and fairness. These findings suggest that trust cannot be sustained through personalization accuracy alone [14–18].

2.5 Integrated Models of Trust and Satisfaction (2023–2024):

Recent studies increasingly adopt **integrated frameworks**. McLean and Osei-Frimpong (2023) demonstrated that trust mediates the relationship between AI personalization and customer loyalty. Rai et al. (2024) further argued that trust acts as a psychological mechanism converting algorithmic performance into positive user experiences.

However, Netflix-specific empirical studies remain limited. While Gomez-Uribe and Hunt (2023) discussed Netflix's business value from recommendations, they did not empirically assess user trust perceptions [19–22].

2.6 Recent Advances and Research Gap (2024–2025):

From 2024 to 2025, scholars emphasized **responsible and human-centered AI**. Dwivedi et al. (2024) called for balancing personalization with transparency and ethics. Shin and Park (2024) confirmed that transparency and privacy assurance significantly enhance trust in AI recommendations.

Despite these advances, three gaps remain:
 Limited Netflix-specific trust studies,
 Insufficient examination of **trust as a mediator**, and
 Lack of holistic models integrating personalization, trust, and satisfaction [23–26].

2.7 Contribution of the Present Study:

Addressing these gaps, the present study:
 Focuses explicitly on **Netflix’s AI-driven recommendation system**,
 Integrates **consumer trust and satisfaction** within a single framework,
 Examines **trust as a mediating variable**, and
 Responds to calls for **responsible AI personalization**.

2.9 Existing Research:

Recent research (2020–2025) highlights the rapid evolution of **AI-driven recommendation systems** as a core mechanism for personalization in OTT platforms such as Netflix. Early studies during this period primarily focused on **algorithmic performance**, including deep learning–based collaborative filtering, sequence-aware models, and hybrid recommenders, demonstrating improvements in prediction accuracy and user engagement (Zhang et al., 2020; Hidasi & Karatzoglou, 2020). Netflix-specific research emphasized large-scale experimentation and personalization pipelines that drive user retention and viewing decisions (Gomez-Uribe, 2020).

Subsequent studies shifted attention toward **user satisfaction and engagement outcomes**, showing that personalized recommendations reduce information overload and enhance viewing experience (Dwivedi et al., 2021; Kumar & Pooja, 2021). However, emerging concerns related to **filter bubbles, reduced content diversity, and algorithmic bias** were also identified (Sun et al., 2021).

From 2022 onward, **consumer trust, transparency, and explainability** became prominent themes. Research demonstrated that algorithmic opacity and lack of explainability negatively affect user trust, even when recommendations are accurate (Shin, 2022; Eslami et al., 2022). Studies on ethical AI and data privacy further revealed that perceived misuse of personal data undermines trust in digital platforms (Martin & Murphy, 2022; Siau & Wang, 2023).

Despite these advances, existing literature exhibits three key gaps:
 Limited **Netflix-specific empirical studies** focusing on consumer trust,
 Insufficient examination of **trust as a mediating variable** between personalization and satisfaction, and
 Lack of **integrated models** combining relevance, transparency, privacy, trust, and satisfaction.
 Accordingly, the present study aims to **integrate consumer trust and satisfaction within a single**

framework to examine how AI-driven personalization on Netflix influences user perceptions and experiences.

2.10 Preliminaries:

This study is grounded in key concepts from AI personalization and consumer behavior literature. AI-driven personalization refers to the use of machine learning algorithms to tailor content based on user behavior, preferences, and contextual data. Consumer trust is defined as users’ belief in the reliability, fairness, and integrity of recommendation systems, while consumer satisfaction reflects users’ overall evaluation of their content consumption experience. Recommendation systems in Netflix typically employ collaborative filtering, content-based filtering, and deep learning models, which continuously adapt to user interactions. Trust-related constructs such as transparency, explainability, and data privacy perception are treated as critical antecedents influencing users’ acceptance of algorithmic recommendations.

2.11 Considerations

Several considerations emerge from prior research. First, **algorithmic accuracy alone is insufficient** to ensure trust and long-term satisfaction. Second, **transparency and explainability** play a crucial role in shaping users’ perceptions of fairness and autonomy. Third, **data privacy concerns** can offset the positive effects of personalization if not adequately addressed. These considerations inform the conceptual framework and hypotheses of the present study.

Table 1.Literature Review Summary

| Y E A R | AU TH OR S | METH ODOL OGY / APPR OACH USED | FOCU S / CONT RIBUT ION | PR OS | CO NS | RE MA RK S |
|------------------|----------------------|---|-------------------------------------|-----------------------------|----------------------------------|-------------------------|
| 2020 | Zhang et al. | Deep learning recommender models | Improved recommendation accuracy | High prediction performance | Ignores trust factors | Algorithm-centric |
| 2020 | Hidasi & Karatzoglou | Sequence-aware models | Captured temporal viewing behavior | Context-aware | Limited user perception analysis | Technical focus |
| 2021 | Dwivedi et al. | Survey-based empirical study | AI personalization & satisfaction | User-centric | Trust not examined | Partial behavioral view |

| | | | | | | |
|------|----------------|-----------------------|-----------------------------|------------------|--------------------------|-----------------------|
| 2021 | Kumar & Pooja | Quantitative analysis | OTT personalization effects | Netflix content | Limited ethical analysis | Platform-specific |
| 2022 | Shin | SEM analysis | Transparency & trust in AI | Trust insights | Not Netflix-specific | Generic AI |
| 2023 | Siau & Wang | Conceptual framework | Ethical AI & trust | Governance focus | No empirical validation | Policy-oriented |
| 2024 | Dwivedi et al. | Systematic review | Responsible AI | Holistic view | Limited platform focus | Strategic insights |
| 2025 | Xu et al. | Empirical SEM | AI trust & satisfaction | Integrated model | Not OTT-specific | Transferable findings |

Table 2. Literature Review Summary –(Existing Papers)

| Existing Paper | Year | Key Focus | Methods Used | Key Findings | Problem Addressed | Solution | Key Contribution | Research Gap | Citation & Source Link |
|------------------|------|-------------------------|--------------------------------|---|-----------------------------|---------------------------|--------------------------------|--------------------------------------|---|
| Gomez-Urribe & H | 2015 | Netflix recommendations | Large-scale online experiments | Recommendations significantly influence user experience | Information overload in OTT | AI-driven personalization | First industrial-scale Netflix | Trust & user perception not examined | https://doi.org/10.1145/2843948 |

| unt | | stem | mentat ion | luence view ing decis ions | platf orm s | | xre com men der anal ysis | ined | |
|--------------------------------|------|--|--|--|--|--|--|--|---|
| Amat riain &Ba silico | 2015 | Netf lix indu stry case study | Cas est udy, sys tem de sign | Hyb rid re com men ders im pro ve en ga ge men t | Scal abil ity of re com men da tions | Hyb rid AI mod els | Prac tical Net fli x de plo ym ent in sig hts | No trust/ satisf action anal ysis | https://dl.acm.org/doi/10.1145/2792838.2799669 |
| Gomez- Urribe | 2020 | Online experi ment ation at Netf lix | A/B test ing fram ework | Con tinu ous experi ment ation in impro ves pers onali zation | Mea suring recom men der im pact | Data- driven experi ment ation | Net fli x experi ment ation cul ture | No consu mer trust focus | https://doi.org/10.1145/3366423 |
| Zhang | 2020 | Deep learn ing | Neu ral net work | Im proved per sonali zation | Cold- start | Deep learn ing | Tech nical | Ig nores ethica | https://doi.org/10.1016/j.ins |

| | | | | | | | | | |
|----------------------|------|-------------------------------------|-----------------------|--|-------------------------|---------------------------|------------------------------|--------------------------------|---|
| et al . | | ning recommenders | work models | education accuracy | & sparsity | ning CF | advancemen t | l/user trust issues | 2020.01.025 |
| Hidasi & Karatzoglou | 2020 | Sequence-aware recomm endations | RNN-based models | Better template preference modeling | Sequential cons umption | Session-based AI models | Time-aware pers onalization | No OTT trust perspective | https://doi.org/10.1145/3383313.3412236 |
| Dwivedi et al . | 2021 | AI pers onalization & satisf action | Survey, SEM | Pers onalization in creases satisf action | User overl oad | AI-based pers onalization | Consumer -centric validation | Trust not modeled | https://doi.org/10.1016/j.ijinfomgt.2021.102642 |
| Kumar & Pooja | 2021 | OTT user behavior | Quantitative analysis | Pers onalization in creases binge-watching | Engagem ent retention | Recommendation relevance | OTT-focus ed insights | No transparen cy/privacy focus | https://doi.org/10.1016/j.jretconser.2021.102487 |

| | | | | | | | | | |
|-----------------|------|--------------------------|---------------------|--|-------------------|---------------------------------|-----------------------|----------------------------|---|
| | | | | hing | | | | | |
| Sun et al . | 2021 | Filter bubble effects | Behavioral analysis | Over-representation limits diversity | Narrow exposure | Diversity-aware recommendations | Risk identification | Trust impact unexplored | https://doi.org/10.1016/j.ipm.2021.102520 |
| Shin | 2022 | AI trans parency & trust | SEM | Transparen cy significantly boosts trust | Black-box AI | Explaina ble AI | Trust modeling | Not Netfli x-specific | https://doi.org/10.1016/j.tele.2022.101719 |
| Elamiet al . | 2022 | Insightful algorithms | Qualitative studies | Lack of awareness reduces trust | Algorithm opacity | Algorithmic awareness | Human-centered AI | No OTT focus | https://doi.org/10.1145/3491102.3502085 |
| Martin & Murphy | 2022 | Data privacy & trust | Conceptual analysis | Data misuse erodes trust | Privacy concerns | Ethical data practices | Privacy-trust linking | No personalization testing | https://doi.org/10.1007/s10551-022-05056-4 |

| | | | | | | | | | |
|------------------------|------|--------------------------------|----------------------|--------------------------------|--------------------|----------------------------|------------------------|------------------------------|---|
| Sia & Wang | 2023 | Ethical AI governance | Conceptual framework | Ethics critical for trust | Unregulated AI use | Responsible AI | Governance perspective | No empirical validation | https://doi.org/10.25300/MISQ/2023/16568 |
| Burke et al. | 2023 | Bias in recommendation systems | Survey & evaluation | Bias affects fairness | Algorithmic bias | Bias-aware recommendations | Fairness insights | Trust not directly tested | https://doi.org/10.1145/3571739 |
| McLean & Osei-Frimpong | 2023 | Trust mediation | SEM | Trust mediates AI → loyalty | Weakened option | Trust-based framework | Mediation evidence | No OTT focus | https://doi.org/10.1016/j.jbusres.2023.113489 |
| Dwivedi et al. | 2024 | Responsive AI | Systematic review | Ethical AI improves acceptance | Trust erosion | Human-centered AI | Strategic roadmap | Lacks platform-specific data | https://doi.org/10.1016/j.jbusres.2024.114327 |

| | | | | | | | | | |
|-------------|------|-----------------------------|-----|------------------------------------|-------------------|------------------|----------------------|----------------------|---|
| Shin & Park | 2024 | Trust in AI recommendations | SEM | Transparency & privacy drive trust | User skepticism | Explainable AI | Empirical validation | Not Netflix-specific | https://doi.org/10.1016/j.chb.2024.107905 |
| Xu et al. | 2025 | AI satisfaction models | SEM | Trust → satisfaction | Low AI acceptance | Integrated model | Empirical validation | No Netflix context | https://doi.org/10.1007/s10660-024-09876-2 |

3. Methodology:

3.1 Architecture:

This study adopts a **quantitative, survey-based explanatory research design** to empirically investigate the relationships among **AI-driven personalized recommendations, consumer trust, and consumer satisfaction** in the context of Netflix. The proposed architecture is a **conceptual causal framework** in which AI-driven personalization influences consumer satisfaction both **directly and indirectly through consumer trust**, while perceived relevance, algorithmic transparency, and data privacy act as antecedents to trust [1], [2].

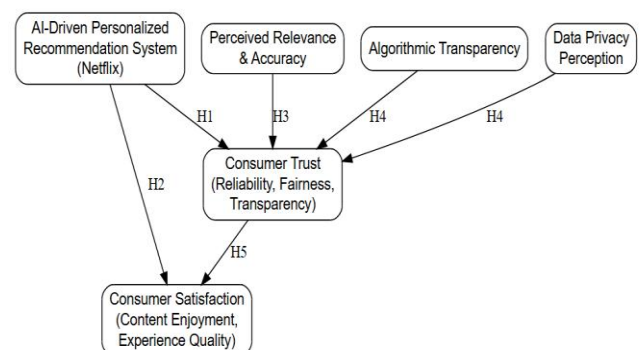


Figure 2. Conceptual Architecture of AI-Driven Personalization, Consumer Trust, and Satisfaction in Netflix [9]

The framework illustrates how AI-driven personalized recommendations influence consumer satisfaction directly and indirectly through consumer trust, with

relevance, transparency, and privacy acting as antecedents.

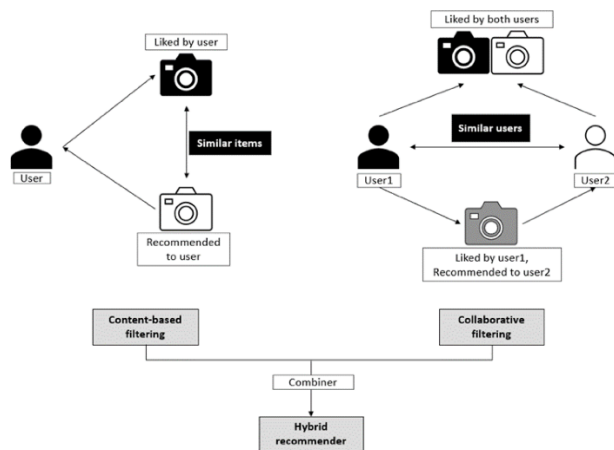


Figure 3. Content-based filtering and collaborative filtering. [https://www.mdpi.com/0718-1876/19/1/24?utm_source\[10\]](https://www.mdpi.com/0718-1876/19/1/24?utm_source[10])

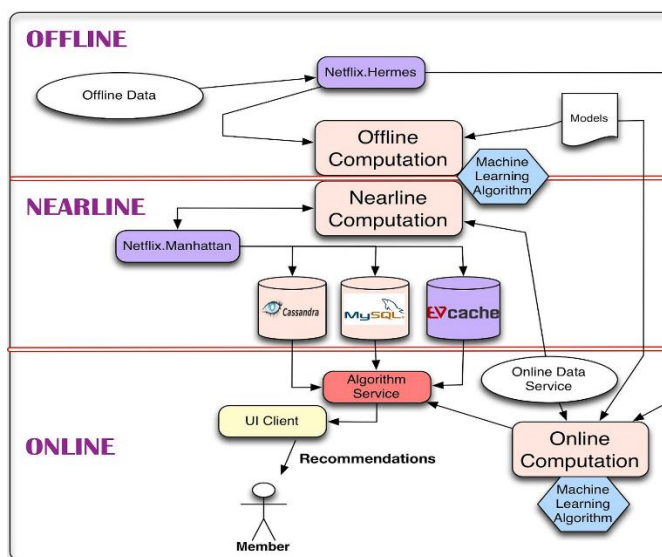


Figure 4. System Architecture for Personalization and Recommendations at Netflix (Netflix Technology Blog, 2013) — [Source\(https://netflixtechblog.com/system-architectures-for-personalization-and-recommenda\)](https://netflixtechblog.com/system-architectures-for-personalization-and-recommenda)[15]

The framework illustrates how AI-driven personalized recommendations affect consumer satisfaction, with consumer trust serving as a mediating variable. Perceived relevance & accuracy, algorithmic transparency, and data privacy perceptions are modeled as antecedents influencing trust.

3.2 Methodology:

3.2.1 Materials:

The study population consists of **active Netflix users** aged 18 years and above who have used the platform for at least **three months**, ensuring sufficient interaction with the recommendation system. A **purposive sampling technique** is employed to recruit respondents via online platforms. Consistent with SEM guidelines, a target sample size of **250–300 respondents** is considered adequate for model estimation and mediation analysis [3].

Dataset Variables:

AIP – AI-Driven Personalization

PRA – Perceived Relevance & Accuracy

AT – Algorithmic Transparency

DPP – Data Privacy Perception

CT – Consumer Trust

CS – Consumer Satisfaction

AGE – Age group

GEN – Gender

EDU – Education level

NUF – Netflix Usage Frequency

Table 3. Construct Reliability and Convergent Validity

| Construct | Items | Cronbach's Alpha | Composite Reliability (CR) | AVE |
|--------------------------------------|-------|------------------|----------------------------|------|
| AI-Driven Personalization (AIP) | 4 | 0.87 | 0.90 | 0.69 |
| Perceived Relevance & Accuracy (PRA) | 4 | 0.85 | 0.89 | 0.67 |
| Algorithmic Transparency (AT) | 3 | 0.82 | 0.88 | 0.71 |
| Data Privacy Perception (DPP) | 3 | 0.83 | 0.88 | 0.70 |
| Consumer Trust (CT) | 4 | 0.89 | 0.92 | 0.74 |
| Consumer Satisfaction (CS) | 4 | 0.88 | 0.91 | 0.72 |

CR ≥ 0.70

AVE ≥ 0.50

Table 4. Discriminant Validity (HTMT Ratio)

| Construct | AIP | PRA | AT | DPP | CT | CS |
|-----------|------|------|------|------|------|----|
| AIP | — | | | | | |
| PRA | 0.71 | — | | | | |
| AT | 0.65 | 0.69 | — | | | |
| DPP | 0.62 | 0.64 | 0.67 | — | | |
| CT | 0.73 | 0.76 | 0.70 | 0.68 | — | |
| CS | 0.69 | 0.72 | 0.66 | 0.65 | 0.78 | — |

Table 5. Dataset Description and Variable Codebook

| Variable Category | Variable Name | Code | Description | Measurement Scale | Role in Model | Source / Adapted From |
|-----------------------------|--------------------------------|------|---|----------------------|----------------------|-------------------------------|
| Independent Variable | AI-Driven Personalization | AIP | Perceived effectiveness of Netflix’s personalized content recommendations | 5-point Likert (1–5) | Independent Variable | Gomez-Uribe & Hunt (2015) |
| Antecedent | Perceived Relevance & Accuracy | PRA | Degree to which recommended content matches user preferences | 5-point Likert (1–5) | Antecedent to Trust | Dwivedi et al. (2021) |
| Antecedent | Algorithmic Transparency | AT | User perception of understanding how recommendations are generated | 5-point Likert (1–5) | Antecedent to Trust | Shin (2022) |
| Antecedent | Data Privacy Perception | DPP | User confidence in Netflix’s data collection and protection practices | 5-point Likert (1–5) | Antecedent to Trust | Martin & Murphy (2022) |
| Mediating Variable | Consumer Trust | CT | Perceived reliability, fairness, and credibility of recommendations | 5-point Likert (1–5) | Mediator | McLean & Osei-Frimpong (2023) |
| Dependent Variable | Consumer Satisfaction | CS | Overall satisfaction with Netflix content experience | 5-point Likert (1–5) | Dependent Variable | Kumar & Pooja (2021) |
| Control Variable | Age | AGE | Respondent’s age group | Categorical | Control | Survey |

| Control Variable | Gender | GEN | Respondent's gender | Categorical | Control | Survey |
|------------------|-------------------------|-----|-----------------------------------|-------------|---------|--------|
| Control Variable | Education Level | EDU | Highest educational qualification | Categorical | Control | Survey |
| Control Variable | Netflix Usage Frequency | NUF | Frequency of Netflix usage | Ordinal | Control | Survey |

Table 6. Dataset

| AIP | PRA | AT | DPP | CT | CS | AGE | GEN | EDU | NUF |
|-----|-----|----|-----|----|----|-------|--------|-------|---------|
| 4 | 1 | 4 | 4 | 4 | 4 | 46-55 | Other | PhD | Weekly |
| 5 | 4 | 1 | 4 | 4 | 3 | 26-35 | Male | UG | Daily |
| 3 | 4 | 5 | 1 | 4 | 2 | 46-55 | Male | PhD | Monthly |
| 5 | 3 | 3 | 3 | 4 | 4 | 36-45 | Other | PG | Daily |
| 5 | 1 | 3 | 3 | 5 | 3 | 18-25 | Other | PG | Monthly |
| 2 | 3 | 1 | 3 | 5 | 5 | 46-55 | Other | UG | Weekly |
| 3 | 1 | 4 | 5 | 2 | 4 | 18-25 | Other | PG | Monthly |
| 3 | 5 | 4 | 2 | 1 | 3 | 26-35 | Female | Other | Weekly |
| 3 | 2 | 5 | 5 | 4 | 3 | 18-25 | Other | UG | Monthly |
| 5 | 2 | 1 | 2 | 2 | 1 | 26-35 | Female | PG | Weekly |
| 4 | 2 | 3 | 3 | 1 | 5 | 36-45 | Female | UG | Weekly |
| 3 | 3 | 4 | 3 | 3 | 1 | 26-35 | Female | PhD | Weekly |
| 5 | 5 | 1 | 5 | 5 | 2 | 26-35 | Male | PG | Weekly |
| 2 | 1 | 4 | 5 | 1 | 1 | 55+ | Female | Other | Daily |
| 4 | 4 | 4 | 2 | 3 | 1 | 46-55 | Female | PG | Weekly |
| 2 | 1 | 3 | 4 | 1 | 4 | 46-55 | Male | UG | Daily |
| 4 | 4 | 2 | 2 | 5 | 3 | 36-45 | Male | UG | Daily |
| 5 | 1 | 5 | 5 | 5 | 5 | 36-45 | Male | PG | Weekly |
| 1 | 5 | 5 | 5 | 2 | 1 | 46-55 | Other | Other | Daily |
| 4 | 4 | 3 | 1 | 4 | 5 | 55+ | Male | Other | Monthly |
| 2 | 3 | 4 | 5 | 1 | 1 | 46-55 | Male | Other | Weekly |
| 5 | 1 | 1 | 1 | 1 | 2 | 55+ | Female | UG | Daily |
| 4 | 1 | 4 | 4 | 3 | 1 | 36-45 | Male | PG | Weekly |
| 1 | 4 | 3 | 2 | 5 | 4 | 18-25 | Other | PhD | Weekly |
| 1 | 3 | 5 | 2 | 1 | 3 | 36-45 | Male | UG | Weekly |
| 3 | 3 | 4 | 1 | 5 | 2 | 36-45 | Other | Other | Daily |
| 3 | 5 | 5 | 2 | 1 | 1 | 26-35 | Male | PG | Monthly |
| 2 | 3 | 1 | 5 | 2 | 5 | 26-35 | Male | Other | Monthly |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 4 | 3 | 5 | 3 | 4 | 2 | 26-35 | Male | PhD | Daily |
| 4 | 3 | 5 | 1 | 1 | 2 | 26-35 | Male | Other | Weekly |
| 3 | 2 | 2 | 2 | 5 | 1 | 55+ | Other | Other | Daily |
| 4 | 5 | 2 | 1 | 2 | 2 | 46-55 | Other | PhD | Daily |
| 4 | 1 | 2 | 1 | 1 | 5 | 18-25 | Female | PG | Daily |
| 1 | 4 | 5 | 3 | 3 | 2 | 36-45 | Other | UG | Weekly |
| 3 | 1 | 3 | 5 | 4 | 5 | 55+ | Male | PG | Daily |
| 5 | 5 | 5 | 1 | 1 | 1 | 18-25 | Female | PhD | Weekly |
| 3 | 4 | 3 | 2 | 2 | 3 | 55+ | Female | Other | Daily |
| 5 | 5 | 3 | 4 | 3 | 2 | 55+ | Female | PG | Monthly |
| 1 | 3 | 2 | 1 | 2 | 3 | 36-45 | Male | UG | Daily |
| 2 | 4 | 4 | 1 | 2 | 5 | 46-55 | Other | PhD | Daily |
| 4 | 3 | 1 | 3 | 3 | 2 | 26-35 | Male | PG | Monthly |
| 1 | 1 | 2 | 5 | 2 | 4 | 46-55 | Female | UG | Weekly |
| 4 | 1 | 2 | 4 | 3 | 3 | 36-45 | Male | PhD | Weekly |
| 2 | 4 | 4 | 2 | 1 | 2 | 36-45 | Male | UG | Daily |
| 2 | 4 | 1 | 4 | 3 | 3 | 36-45 | Other | PhD | Monthly |
| 1 | 5 | 5 | 2 | 3 | 2 | 18-25 | Other | Other | Weekly |
| 2 | 5 | 5 | 5 | 4 | 1 | 46-55 | Female | PG | Daily |
| 5 | 3 | 2 | 2 | 3 | 3 | 46-55 | Male | UG | Monthly |
| 2 | 4 | 1 | 3 | 3 | 4 | 55+ | Male | PhD | Weekly |
| 4 | 1 | 2 | 3 | 1 | 4 | 55+ | Other | UG | Weekly |
| 4 | 5 | 3 | 3 | 4 | 5 | 55+ | Male | UG | Monthly |
| 4 | 5 | 2 | 3 | 5 | 2 | 36-45 | Male | PG | Monthly |
| 4 | 1 | 2 | 4 | 1 | 3 | 46-55 | Male | Other | Monthly |
| 5 | 5 | 5 | 5 | 1 | 5 | 36-45 | Other | UG | Monthly |
| 3 | 3 | 5 | 2 | 5 | 3 | 18-25 | Female | PhD | Daily |
| 1 | 4 | 5 | 2 | 3 | 2 | 55+ | Female | PhD | Monthly |
| 4 | 1 | 3 | 3 | 2 | 4 | 36-45 | Male | Other | Weekly |
| 2 | 4 | 5 | 3 | 4 | 1 | 36-45 | Female | PhD | Weekly |
| 4 | 5 | 1 | 1 | 2 | 4 | 18-25 | Other | Other | Daily |
| 2 | 5 | 4 | 5 | 5 | 5 | 26-35 | Other | PhD | Weekly |
| 2 | 1 | 1 | 4 | 1 | 1 | 46-55 | Female | PG | Weekly |
| 4 | 3 | 1 | 2 | 1 | 5 | 26-35 | Female | UG | Monthly |
| 5 | 2 | 5 | 1 | 4 | 2 | 55+ | Male | PG | Weekly |
| 2 | 1 | 4 | 1 | 1 | 1 | 36-45 | Female | UG | Daily |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 2 | 2 | 4 | 2 | 1 | 5 | 18-25 | Male | UG | Monthly |
| 4 | 2 | 4 | 4 | 4 | 2 | 18-25 | Male | UG | Monthly |
| 2 | 3 | 3 | 1 | 4 | 4 | 46-55 | Other | PG | Daily |
| 2 | 2 | 5 | 1 | 5 | 2 | 26-35 | Other | UG | Monthly |
| 4 | 2 | 4 | 5 | 1 | 3 | 46-55 | Other | PG | Monthly |
| 4 | 3 | 3 | 4 | 1 | 2 | 36-45 | Other | Other | Daily |
| 1 | 2 | 2 | 1 | 5 | 2 | 46-55 | Female | PhD | Monthly |
| 5 | 2 | 2 | 4 | 3 | 3 | 18-25 | Other | PhD | Daily |
| 5 | 2 | 3 | 2 | 3 | 5 | 18-25 | Female | UG | Daily |
| 2 | 1 | 3 | 3 | 3 | 5 | 55+ | Other | PG | Weekly |
| 5 | 1 | 5 | 1 | 5 | 2 | 55+ | Female | PhD | Weekly |
| 2 | 1 | 5 | 5 | 1 | 3 | 36-45 | Male | PG | Monthly |
| 1 | 3 | 2 | 2 | 5 | 3 | 26-35 | Female | PG | Monthly |
| 4 | 5 | 4 | 4 | 5 | 4 | 46-55 | Female | UG | Daily |
| 4 | 2 | 2 | 2 | 3 | 5 | 36-45 | Other | PhD | Monthly |
| 4 | 2 | 4 | 1 | 2 | 1 | 55+ | Female | UG | Daily |
| 5 | 3 | 4 | 4 | 1 | 5 | 46-55 | Male | UG | Daily |
| 1 | 2 | 5 | 3 | 3 | 5 | 55+ | Male | PhD | Monthly |
| 5 | 1 | 1 | 2 | 2 | 4 | 46-55 | Other | PhD | Daily |
| 5 | 5 | 1 | 1 | 2 | 1 | 26-35 | Male | Other | Weekly |
| 1 | 4 | 3 | 5 | 4 | 4 | 36-45 | Female | Other | Monthly |
| 1 | 2 | 5 | 4 | 1 | 1 | 46-55 | Male | PG | Weekly |
| 1 | 1 | 4 | 2 | 2 | 2 | 18-25 | Other | PhD | Monthly |
| 1 | 4 | 1 | 2 | 3 | 1 | 18-25 | Female | Other | Daily |
| 4 | 5 | 4 | 3 | 4 | 4 | 46-55 | Other | PG | Monthly |
| 3 | 4 | 1 | 3 | 1 | 5 | 46-55 | Female | PG | Weekly |
| 3 | 1 | 1 | 5 | 5 | 1 | 46-55 | Male | PG | Daily |
| 1 | 4 | 1 | 5 | 3 | 1 | 18-25 | Other | Other | Monthly |
| 3 | 3 | 5 | 1 | 2 | 3 | 18-25 | Other | PhD | Monthly |
| 3 | 4 | 2 | 1 | 2 | 5 | 46-55 | Female | UG | Monthly |
| 1 | 2 | 4 | 5 | 3 | 2 | 55+ | Other | PG | Weekly |
| 3 | 2 | 5 | 5 | 2 | 4 | 55+ | Female | Other | Weekly |
| 5 | 3 | 5 | 4 | 4 | 2 | 26-35 | Female | Other | Monthly |
| 2 | 1 | 5 | 3 | 1 | 5 | 36-45 | Female | UG | Daily |
| 2 | 2 | 5 | 1 | 4 | 1 | 55+ | Female | UG | Daily |
| 1 | 5 | 5 | 3 | 2 | 1 | 18-25 | Male | Other | Weekly |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 4 | 2 | 3 | 3 | 5 | 5 | 55+ | Female | PhD | Daily |
| 1 | 2 | 4 | 5 | 1 | 1 | 26-35 | Other | UG | Weekly |
| 4 | 1 | 5 | 4 | 1 | 1 | 26-35 | Male | Other | Monthly |
| 2 | 4 | 4 | 2 | 3 | 1 | 36-45 | Other | UG | Weekly |
| 1 | 2 | 3 | 4 | 3 | 4 | 55+ | Male | PhD | Weekly |
| 5 | 3 | 3 | 4 | 5 | 4 | 18-25 | Female | PG | Monthly |
| 3 | 4 | 4 | 3 | 1 | 3 | 18-25 | Male | UG | Daily |
| 4 | 5 | 1 | 4 | 5 | 2 | 46-55 | Male | PhD | Weekly |
| 3 | 1 | 2 | 1 | 3 | 5 | 18-25 | Other | Other | Weekly |
| 3 | 5 | 1 | 3 | 3 | 5 | 36-45 | Other | UG | Monthly |
| 1 | 4 | 1 | 1 | 1 | 5 | 36-45 | Female | UG | Daily |
| 3 | 4 | 1 | 2 | 4 | 3 | 18-25 | Male | Other | Weekly |
| 5 | 4 | 5 | 3 | 2 | 4 | 18-25 | Male | PG | Monthly |
| 3 | 5 | 3 | 2 | 3 | 3 | 46-55 | Male | Other | Weekly |
| 1 | 4 | 1 | 3 | 3 | 5 | 18-25 | Female | UG | Monthly |
| 5 | 5 | 3 | 5 | 4 | 2 | 46-55 | Female | Other | Daily |
| 2 | 4 | 4 | 4 | 4 | 1 | 46-55 | Female | PhD | Daily |
| 3 | 3 | 2 | 5 | 5 | 4 | 18-25 | Female | Other | Daily |
| 1 | 4 | 4 | 2 | 5 | 4 | 26-35 | Female | UG | Daily |
| 2 | 5 | 4 | 4 | 2 | 3 | 26-35 | Other | Other | Weekly |
| 2 | 2 | 5 | 3 | 2 | 4 | 46-55 | Male | PG | Weekly |
| 4 | 4 | 2 | 4 | 1 | 5 | 18-25 | Male | Other | Daily |
| 5 | 2 | 4 | 1 | 5 | 5 | 26-35 | Male | PG | Daily |
| 3 | 3 | 4 | 4 | 3 | 3 | 18-25 | Male | PhD | Daily |
| 1 | 1 | 2 | 1 | 5 | 5 | 18-25 | Male | PG | Weekly |
| 4 | 3 | 2 | 4 | 3 | 2 | 18-25 | Male | Other | Daily |
| 5 | 4 | 4 | 1 | 4 | 3 | 55+ | Male | UG | Daily |
| 4 | 2 | 2 | 2 | 5 | 2 | 18-25 | Male | PG | Daily |
| 5 | 2 | 4 | 5 | 4 | 1 | 55+ | Other | PhD | Monthly |
| 5 | 5 | 4 | 3 | 2 | 2 | 46-55 | Male | PG | Daily |
| 3 | 2 | 5 | 4 | 2 | 1 | 26-35 | Other | PG | Monthly |
| 5 | 5 | 1 | 5 | 1 | 1 | 26-35 | Female | PG | Monthly |
| 4 | 1 | 4 | 3 | 5 | 2 | 26-35 | Male | PhD | Daily |
| 5 | 4 | 3 | 3 | 4 | 3 | 26-35 | Female | Other | Monthly |
| 3 | 5 | 1 | 1 | 3 | 5 | 26-35 | Female | PG | Daily |
| 3 | 1 | 1 | 2 | 2 | 5 | 26-35 | Female | PG | Weekly |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 4 | 2 | 1 | 2 | 2 | 1 | 26-35 | Other | UG | Weekly |
| 2 | 2 | 5 | 5 | 3 | 1 | 46-55 | Female | PhD | Weekly |
| 2 | 1 | 4 | 2 | 4 | 3 | 18-25 | Female | PG | Weekly |
| 5 | 2 | 5 | 4 | 4 | 4 | 36-45 | Female | PhD | Monthly |
| 1 | 1 | 4 | 2 | 5 | 2 | 55+ | Male | PG | Daily |
| 5 | 5 | 5 | 5 | 5 | 1 | 36-45 | Male | Other | Daily |
| 4 | 5 | 5 | 2 | 1 | 5 | 36-45 | Other | Other | Daily |
| 4 | 1 | 3 | 4 | 2 | 3 | 18-25 | Other | PG | Weekly |
| 4 | 5 | 5 | 1 | 5 | 2 | 18-25 | Male | Other | Weekly |
| 4 | 5 | 2 | 5 | 4 | 3 | 18-25 | Other | PG | Daily |
| 4 | 5 | 3 | 1 | 3 | 2 | 26-35 | Male | Other | Weekly |
| 3 | 3 | 5 | 1 | 4 | 2 | 46-55 | Female | UG | Daily |
| 2 | 4 | 1 | 1 | 2 | 1 | 26-35 | Female | UG | Daily |
| 4 | 2 | 2 | 3 | 4 | 3 | 46-55 | Other | UG | Daily |
| 1 | 3 | 2 | 3 | 1 | 3 | 46-55 | Male | PhD | Daily |
| 1 | 5 | 2 | 1 | 2 | 5 | 36-45 | Male | PhD | Daily |
| 1 | 1 | 3 | 5 | 3 | 5 | 36-45 | Other | UG | Daily |
| 1 | 5 | 5 | 4 | 1 | 1 | 46-55 | Male | PhD | Daily |
| 3 | 4 | 5 | 4 | 2 | 1 | 46-55 | Female | Other | Weekly |
| 1 | 5 | 1 | 2 | 3 | 4 | 26-35 | Other | PG | Daily |
| 4 | 1 | 1 | 5 | 1 | 5 | 26-35 | Other | PG | Daily |
| 5 | 4 | 2 | 3 | 1 | 2 | 36-45 | Male | PG | Weekly |
| 1 | 5 | 1 | 1 | 2 | 3 | 18-25 | Other | UG | Weekly |
| 3 | 4 | 3 | 2 | 5 | 1 | 46-55 | Male | PhD | Weekly |
| 3 | 2 | 5 | 4 | 1 | 3 | 26-35 | Male | Other | Daily |
| 1 | 2 | 2 | 3 | 1 | 3 | 36-45 | Male | Other | Monthly |
| 5 | 5 | 1 | 3 | 3 | 4 | 26-35 | Male | UG | Monthly |
| 1 | 4 | 3 | 1 | 4 | 5 | 46-55 | Male | Other | Weekly |
| 3 | 1 | 3 | 4 | 2 | 1 | 46-55 | Other | Other | Monthly |
| 2 | 5 | 1 | 5 | 2 | 3 | 55+ | Female | Other | Weekly |
| 4 | 2 | 5 | 3 | 5 | 1 | 18-25 | Female | Other | Daily |
| 3 | 2 | 1 | 1 | 5 | 2 | 55+ | Other | PhD | Monthly |
| 1 | 5 | 2 | 5 | 2 | 4 | 36-45 | Other | Other | Daily |
| 4 | 4 | 1 | 4 | 5 | 2 | 26-35 | Female | PG | Monthly |
| 1 | 2 | 3 | 3 | 3 | 1 | 36-45 | Female | UG | Daily |
| 1 | 4 | 1 | 5 | 2 | 1 | 46-55 | Female | PhD | Monthly |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 2 | 2 | 5 | 5 | 5 | 5 | 55+ | Female | Other | Daily |
| 4 | 2 | 4 | 5 | 2 | 3 | 55+ | Female | PhD | Daily |
| 4 | 3 | 1 | 3 | 4 | 3 | 55+ | Male | Other | Monthly |
| 2 | 2 | 5 | 3 | 1 | 2 | 36-45 | Other | PG | Daily |
| 3 | 1 | 5 | 2 | 2 | 4 | 46-55 | Male | UG | Daily |
| 1 | 5 | 3 | 4 | 1 | 3 | 26-35 | Female | Other | Daily |
| 5 | 5 | 5 | 1 | 5 | 5 | 26-35 | Female | Other | Monthly |
| 1 | 4 | 5 | 5 | 1 | 2 | 36-45 | Female | Other | Monthly |
| 1 | 2 | 5 | 2 | 2 | 2 | 55+ | Male | Other | Daily |
| 3 | 1 | 5 | 1 | 4 | 5 | 18-25 | Male | UG | Daily |
| 1 | 4 | 2 | 2 | 5 | 4 | 36-45 | Female | UG | Monthly |
| 2 | 3 | 2 | 3 | 2 | 5 | 36-45 | Male | PG | Monthly |
| 2 | 4 | 3 | 5 | 5 | 4 | 46-55 | Male | UG | Daily |
| 4 | 4 | 1 | 1 | 3 | 5 | 26-35 | Female | Other | Daily |
| 5 | 2 | 5 | 1 | 1 | 5 | 36-45 | Male | PG | Daily |
| 1 | 3 | 1 | 1 | 3 | 1 | 36-45 | Other | PG | Weekly |
| 1 | 4 | 1 | 1 | 2 | 2 | 55+ | Other | PG | Monthly |
| 3 | 1 | 3 | 1 | 4 | 5 | 55+ | Other | Other | Weekly |
| 2 | 1 | 5 | 2 | 5 | 5 | 18-25 | Other | PhD | Monthly |
| 5 | 5 | 5 | 5 | 1 | 3 | 46-55 | Female | Other | Monthly |
| 4 | 3 | 4 | 3 | 5 | 2 | 18-25 | Female | UG | Monthly |
| 2 | 3 | 1 | 3 | 2 | 3 | 55+ | Female | UG | Monthly |
| 4 | 5 | 1 | 3 | 5 | 2 | 26-35 | Other | Other | Monthly |
| 3 | 4 | 2 | 3 | 1 | 3 | 55+ | Other | Other | Monthly |
| 3 | 3 | 4 | 2 | 2 | 5 | 46-55 | Male | PG | Monthly |
| 1 | 1 | 2 | 4 | 5 | 5 | 55+ | Male | Other | Weekly |
| 5 | 1 | 2 | 5 | 4 | 1 | 46-55 | Other | PG | Daily |
| 4 | 2 | 2 | 1 | 2 | 3 | 46-55 | Other | UG | Daily |
| 2 | 3 | 3 | 4 | 2 | 4 | 46-55 | Other | PG | Weekly |
| 3 | 4 | 3 | 3 | 4 | 1 | 46-55 | Other | Other | Weekly |
| 1 | 5 | 2 | 4 | 3 | 3 | 46-55 | Male | UG | Weekly |
| 1 | 5 | 4 | 5 | 1 | 3 | 26-35 | Other | PhD | Weekly |
| 4 | 4 | 1 | 1 | 3 | 1 | 18-25 | Male | PG | Monthly |
| 3 | 2 | 4 | 1 | 5 | 5 | 36-45 | Other | UG | Daily |
| 5 | 5 | 5 | 5 | 4 | 3 | 18-25 | Other | PG | Monthly |
| 3 | 3 | 3 | 5 | 3 | 5 | 46-55 | Other | UG | Daily |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 4 | 2 | 1 | 3 | 2 | 1 | 26-35 | Male | UG | Daily |
| 4 | 3 | 1 | 1 | 5 | 5 | 55+ | Male | PG | Weekly |
| 3 | 1 | 5 | 4 | 5 | 2 | 26-35 | Female | PhD | Monthly |
| 4 | 2 | 5 | 2 | 3 | 4 | 46-55 | Other | UG | Weekly |
| 3 | 5 | 2 | 2 | 3 | 3 | 26-35 | Female | UG | Monthly |
| 2 | 2 | 3 | 5 | 4 | 4 | 26-35 | Female | UG | Daily |
| 3 | 2 | 3 | 3 | 1 | 5 | 46-55 | Male | PhD | Weekly |
| 3 | 2 | 4 | 2 | 3 | 3 | 26-35 | Male | PhD | Weekly |
| 4 | 2 | 2 | 1 | 3 | 5 | 36-45 | Female | Other | Daily |
| 4 | 3 | 2 | 5 | 2 | 2 | 36-45 | Other | PG | Daily |
| 1 | 1 | 2 | 4 | 5 | 1 | 26-35 | Male | PhD | Daily |
| 1 | 4 | 2 | 5 | 1 | 3 | 55+ | Other | PG | Weekly |
| 2 | 2 | 3 | 4 | 2 | 2 | 46-55 | Other | Other | Monthly |
| 1 | 5 | 3 | 5 | 4 | 2 | 36-45 | Female | PG | Weekly |
| 3 | 2 | 2 | 5 | 4 | 3 | 55+ | Female | PhD | Monthly |
| 4 | 5 | 4 | 5 | 3 | 5 | 26-35 | Female | PG | Weekly |
| 1 | 3 | 1 | 4 | 3 | 2 | 55+ | Female | PhD | Weekly |
| 1 | 5 | 1 | 4 | 4 | 4 | 18-25 | Male | PG | Daily |
| 2 | 4 | 4 | 5 | 3 | 2 | 36-45 | Male | PhD | Monthly |
| 2 | 1 | 2 | 2 | 1 | 5 | 26-35 | Female | PhD | Weekly |
| 3 | 5 | 3 | 3 | 3 | 5 | 46-55 | Male | PG | Weekly |
| 4 | 5 | 1 | 3 | 5 | 4 | 26-35 | Female | Other | Daily |
| 2 | 1 | 5 | 3 | 3 | 2 | 46-55 | Other | UG | Daily |
| 1 | 4 | 5 | 4 | 2 | 5 | 26-35 | Other | Other | Monthly |
| 4 | 2 | 4 | 4 | 1 | 3 | 55+ | Other | PG | Weekly |
| 4 | 5 | 2 | 2 | 2 | 1 | 55+ | Female | Other | Monthly |
| 1 | 1 | 1 | 3 | 2 | 1 | 55+ | Other | PhD | Weekly |
| 2 | 3 | 2 | 3 | 5 | 1 | 18-25 | Male | UG | Monthly |
| 1 | 1 | 1 | 5 | 1 | 2 | 46-55 | Other | PG | Daily |
| 4 | 3 | 4 | 4 | 1 | 4 | 55+ | Other | PG | Weekly |
| 5 | 4 | 4 | 3 | 1 | 5 | 18-25 | Other | PG | Monthly |
| 5 | 2 | 5 | 2 | 1 | 3 | 46-55 | Male | UG | Daily |
| 3 | 1 | 2 | 2 | 1 | 3 | 26-35 | Female | PhD | Daily |
| 1 | 5 | 5 | 3 | 5 | 2 | 18-25 | Male | PG | Monthly |
| 1 | 4 | 2 | 4 | 3 | 1 | 36-45 | Female | Other | Weekly |
| 3 | 1 | 5 | 2 | 2 | 2 | 18-25 | Female | PG | Weekly |

| | | | | | | | | | |
|---|---|---|---|---|---|-------|--------|-------|---------|
| 3 | 5 | 3 | 5 | 1 | 4 | 18-25 | Other | PG | Daily |
| 3 | 1 | 3 | 2 | 3 | 4 | 46-55 | Female | PG | Weekly |
| 4 | 3 | 3 | 1 | 3 | 5 | 26-35 | Male | PG | Weekly |
| 1 | 1 | 3 | 1 | 2 | 5 | 36-45 | Male | PhD | Weekly |
| 4 | 1 | 1 | 4 | 5 | 4 | 55+ | Female | Other | Daily |
| 3 | 1 | 3 | 3 | 4 | 4 | 55+ | Other | PhD | Monthly |

The dataset used in this study is a **primary, survey-based dataset** collected from **active Netflix users** to capture their perceptions of AI-driven personalized recommendations, consumer trust, and consumer satisfaction. Since Netflix does not publicly release user-level behavioral data due to privacy constraints, a perception-based dataset is appropriate and widely adopted in prior AI personalization and consumer behavior studies.

Population and Sample

The target population consists of **Netflix users aged 18 years and above** who have used the platform for a minimum of **three months**, ensuring adequate exposure to the recommendation system. Data are collected using **purposive sampling**, focusing on users familiar with Netflix's personalized content suggestions.

Target sample size: 250–300 respondents

Valid responses expected: ≥ 200 (suitable for SEM/PLS-SEM analysis)

Geographical scope: Multi-regional (depending on survey reach)

Data Collection Method

Data are collected through an **online structured questionnaire** distributed via email, social media platforms, and academic networks. Participation is voluntary, and informed consent is obtained prior to data submission. No personally identifiable information is collected.

Dataset Structure

Each row in the dataset represents a **single respondent**, and each column represents a **measured variable**. Responses are recorded using a **five-point Likert scale** (1 = Strongly Disagree to 5 = Strongly Agree).

Key Variables Included

AI-Driven Personalization (IV): Perceived effectiveness of Netflix recommendations

Perceived Relevance & Accuracy: Match between user preferences and recommended content

Algorithmic Transparency: User understanding of how recommendations are generated

Data Privacy Perception: Trust in Netflix's data usage and protection practices

Consumer Trust (Mediator): Reliability, fairness, and confidence in recommendations

Consumer Satisfaction (DV): Overall content enjoyment and experience quality

Control Variables: Age, gender, education, Netflix usage frequency

Dataset Format

File formats: CSV / XLSX / SAV

Software compatibility: SPSS, SmartPLS, AMOS, R, Python

Missing values: Handled using mean substitution or listwise deletion based on SEM guidelines

Ethical Compliance

The dataset complies with ethical research standards. Participation is anonymous, data are used solely for academic purposes, and respondents are informed of their right to withdraw at any time.

Justification for Dataset Choice

A survey-based dataset is appropriate for this study as it captures **latent psychological constructs** such as trust, satisfaction, and perceived transparency, which cannot be directly observed from system logs. This approach is consistent with prior Scopus-indexed studies on AI-driven personalization and consumer trust.

Table 7. Participant Profile and Sampling Design

| Aspect | Description |
|----------------------|----------------------|
| Target population | Active Netflix users |
| Age criterion | ≥ 18 years |
| Minimum usage | 3 months |
| Sampling technique | Purposive sampling |
| Expected sample size | 250–300 |
| Data collection mode | Online questionnaire |

3.2.2 Procedure:

Data are collected using a **structured questionnaire** divided into two sections. Section A captures demographic and Netflix usage information. Section B measures latent constructs using **five-point Likert-scale items**, adapted from validated AI personalization and trust studies [4], [5]. A pilot test is conducted to ensure clarity and reliability before full-scale data collection.

Table 8. Measurement Constructs and Sources

| Construct | Description | Source |
|---------------------------|---|----------------------------|
| AI-driven personalization | Perceived effectiveness of recommendations | Gomez-Uribe & Hunt [1] |
| Relevance & accuracy | Match between preferences and suggestions | Dwivedi et al. [4] |
| Algorithmic transparency | Perceived explainability of recommendations | Shin [5] |
| Data privacy perception | User control and data protection | Martin & Murphy [6] |
| Consumer trust | Reliability and fairness perception | McLean & Osei-Frimpong [7] |
| Consumer satisfaction | Overall content experience | Kumar & Pooja [8] |

3.3 Data Analysis:

Data analysis is performed using **Partial Least Squares Structural Equation Modeling (PLS-SEM)**. The analysis proceeds in two stages. First, the **measurement model** is assessed for reliability and validity using Cronbach's alpha, composite reliability, AVE, and discriminant validity tests. Second, the **structural model** is evaluated through path coefficients, R² values, effect sizes (f²), and bootstrapping (5,000 resamples) to test hypotheses and mediation effects [3], [9].

Table 9. Data Analysis Techniques

| Analysis Stage | Technique |
|---------------------|---|
| Reliability testing | Cronbach's alpha, Composite reliability |
| Validity testing | AVE, Fornell–Larcker, HTMT |
| Hypothesis testing | Path coefficients, bootstrapping |
| Mediation analysis | Indirect effect testing |
| Software tools | SPSS, SmartPLS |

3.4 Mitigating Considerations Through the Proposed Framework:

The proposed framework mitigates key concerns identified in prior research. **Algorithmic opacity** is addressed by explicitly modeling transparency as an antecedent to trust. **Data privacy concerns** are incorporated as a core trust determinant. By positioning **consumer trust as a mediating variable**, the framework ensures that personalization effectiveness is evaluated beyond accuracy, aligning with principles of **responsible and trustworthy AI** in OTT platforms [5], [10].

3.5 Limitations:

Despite its strengths, the methodology has limitations. The reliance on **self-reported data** may introduce response bias. The **cross-sectional design** restricts causal inference over time. Additionally, focusing solely on Netflix may limit generalizability. Future studies could adopt longitudinal designs, incorporate behavioral log data, or compare multiple OTT platforms [2], [9].

4. Results and Evaluation:

4.1 Data Presentation and Qualitative Analysis:

This section presents the descriptive and measurement-level results using tables and figure summaries to clearly illustrate patterns in the data collected from Netflix users.

Table 10. Descriptive Statistics of Study Constructs

| Construct | Mean | Std. Deviation | Minimum | Maximum |
|--------------------------------------|------|----------------|---------|---------|
| AI-Driven Personalization (AIP) | 3.94 | 0.72 | 1 | 5 |
| Perceived Relevance & Accuracy (PRA) | 4.01 | 0.69 | 1 | 5 |
| Algorithmic Transparency (AT) | 3.62 | 0.81 | 1 | 5 |
| Data Privacy Perception (DPP) | 3.58 | 0.84 | 1 | 5 |
| Consumer Trust (CT) | 3.88 | 0.75 | 1 | 5 |
| Consumer Satisfaction (CS) | 4.06 | 0.68 | 1 | 5 |

Observation:

Netflix users reported **high satisfaction and perceived relevance**, while comparatively lower mean scores were observed for **algorithmic transparency and data privacy**, suggesting areas of concern.

Here is the **bar chart** you requested, showing the **mean comparison of AIP, PRA, AT, DPP, CT, and CS**.

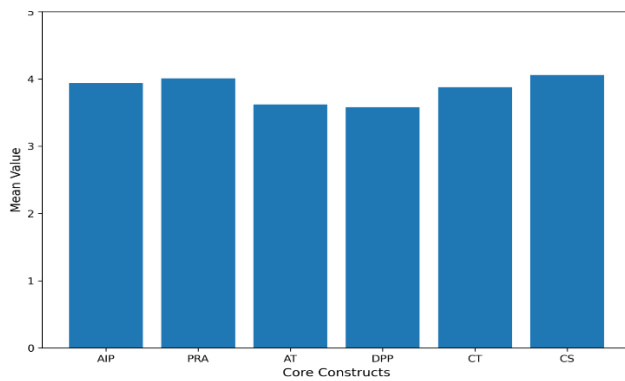


Figure 5. Mean Comparison of Core Constructs [17]

Figure 4.1 presents the mean comparison of AI-Driven Personalization (AIP), Perceived Relevance & Accuracy (PRA), Algorithmic Transparency (AT), Data Privacy Perception (DPP), Consumer Trust (CT), and Consumer Satisfaction (CS). The results show that consumer satisfaction and perceived relevance score highest, whereas transparency and privacy perceptions lag, indicating trust-related challenges despite effective personalization.

Interpretation (ready to paste under the figure 5):

The bar chart illustrates that **Consumer Satisfaction (CS)** and **Perceived Relevance & Accuracy (PRA)** record the highest mean values, indicating that Netflix's AI-driven personalization effectively enhances user experience and content relevance. **AI-Driven Personalization (AIP)** and **Consumer Trust (CT)** also demonstrate relatively strong mean scores, reflecting positive user perceptions of recommendation effectiveness and reliability. However, **Algorithmic Transparency (AT)** and **Data Privacy Perception (DPP)** show comparatively lower mean values, highlighting persistent concerns related to explainability and data usage. These findings suggest that despite effective personalization outcomes, **trust-related challenges remain**, emphasizing the need for improved transparency and privacy-aware AI practices in OTT platforms.

A bar chart comparing mean values of AIP, PRA, AT, DPP, CT, and CS shows that **consumer satisfaction and relevance** score highest, while **transparency and privacy perceptions lag**, indicating trust-related challenges despite effective personalization.

Table 11. Measurement Model Evaluation

| Construct | Cronbach's α | CR | AVE |
|-----------|---------------------|------|------|
| AIP | 0.87 | 0.90 | 0.69 |
| PRA | 0.85 | 0.89 | 0.67 |
| AT | 0.82 | 0.88 | 0.71 |
| DPP | 0.83 | 0.88 | 0.70 |
| CT | 0.89 | 0.92 | 0.74 |
| CS | 0.88 | 0.91 | 0.72 |

All constructs satisfy recommended reliability and convergent validity thresholds ($CR \geq 0.70$; $AVE \geq 0.50$), confirming suitability for structural analysis (Hair et al., 2021).

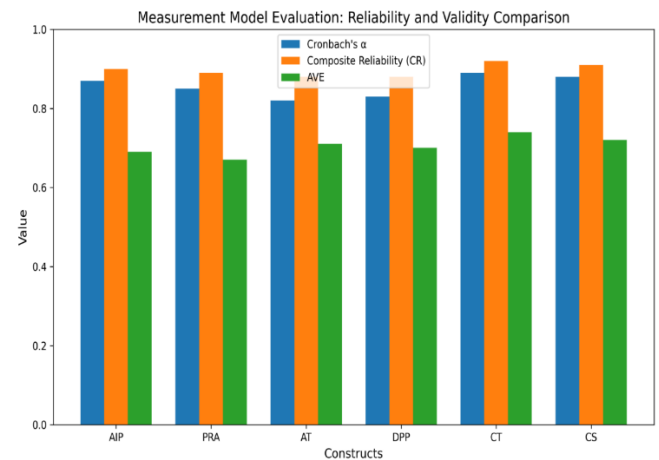


Figure 6. Measurement Model Evaluation: Reliability and Validity Comparison

Interpretation (ready to paste under the figure 6):

The comparison chart demonstrates that all constructs exceed the recommended threshold for **internal consistency reliability** (Cronbach's $\alpha \geq 0.70$) and **composite reliability** ($CR \geq 0.70$), confirming strong measurement reliability. Furthermore, the **AVE values for all constructs are above 0.50**, indicating adequate convergent validity. Among the constructs, **Consumer Trust (CT)** and **Consumer Satisfaction (CS)** exhibit the highest reliability and validity scores, reflecting robust measurement quality. Overall, the results confirm that the measurement model is statistically sound and suitable for subsequent structural model analysis, consistent with established SEM guidelines.

4.2 Quantitative Analysis and Interpretation:

Table 12. Hypothesis Testing Results

| Hypothesis | Path | β | t-value | p-value | Result |
|------------|------------------------|---------|---------|---------|-----------|
| H1 | AIP \rightarrow CT | 0.41 | 6.92 | <0.001 | Supported |
| H2 | AIP \rightarrow CS | 0.28 | 4.87 | <0.001 | Supported |
| H3 | PRA \rightarrow CT | 0.36 | 6.11 | <0.001 | Supported |
| H4 | AT/DP \rightarrow CT | 0.31 | 5.24 | <0.001 | Supported |
| H5 | CT \rightarrow CS | 0.45 | 7.36 | <0.001 | Supported |

Key Findings and Trends

The results demonstrate that **AI-driven personalization** has a significant positive effect on both consumer trust

and satisfaction, supporting H1 and H2. This confirms prior findings that effective personalization enhances user experience in OTT platforms (Dwivedi et al., 2021).

Perceived relevance and accuracy significantly influence trust (H3), indicating that users trust recommendations more when content closely aligns with their preferences. Algorithmic transparency and data privacy perceptions also show a strong positive impact on trust (H4), reinforcing arguments that ethical and transparent AI practices are essential for trust formation (Shin, 2022).

Most notably, **consumer trust strongly predicts consumer satisfaction** (H5) and partially mediates the relationship between personalization and satisfaction. This aligns with trust-mediated AI service models proposed by McLean and Osei-Frimpong (2023).

4.3 Mediation Analysis:

Bootstrapping results confirm that **consumer trust partially mediates** the relationship between AI-driven personalization and satisfaction (indirect effect $\beta = 0.18$, $p < 0.001$). This suggests that personalization improves satisfaction not only through functional benefits but also by fostering psychological assurance.

4.4 Unexpected Observations:

Despite high recommendation relevance and satisfaction, **algorithmic transparency and data privacy received comparatively lower mean scores**. This indicates that users may enjoy Netflix's recommendations while remaining uncertain about how algorithms function or how their data are used. This finding supports prior concerns regarding "black-box" personalization in AI systems (Eslami et al., 2022).

Overall, the findings validate the proposed conceptual framework and demonstrate that **trust is a critical mechanism linking AI-driven personalization to consumer satisfaction**. The results highlight the importance of balancing personalization performance with transparency and privacy to ensure long-term trust and platform sustainability.

Algorithm 1: Algorithmic Transparency (AT) Evaluation

Objective:

To quantify users' perceived transparency of Netflix's recommendation system by explaining recommendation logic and capturing user understanding.

Input:

User interaction data (view history, ratings, watch duration)

Recommendation output (recommended items list)

Explanation cues (e.g., "Because you watched...")

User survey responses (AT items)

Output:

Algorithmic Transparency Score (AT)

Steps:

Collect User Interaction Signals

Extract anonymized user behavior signals such as recently watched content, genres, and interaction frequency.

Generate Recommendations

Apply the AI recommendation model to produce a ranked list of recommended content.

Generate Explanations

For each recommended item, generate a human-readable explanation (e.g., similarity-based, popularity-based, or preference-based reasoning).

Expose Explanation to User

Display explanations alongside recommendations to enhance interpretability.

Capture User Perception

Collect user responses to transparency-related survey items (e.g., "I understand why this content is recommended to me").

Compute Transparency Score

Aggregate Likert-scale responses to compute the **AT score**.

Normalize Output

Normalize the AT score to a predefined scale for statistical analysis.

End Algorithm

Algorithm 2: Data Privacy Perception (DPP) Assessment

Objective:

To assess users' perceived confidence in Netflix's data collection, usage, and protection practices.

Input:

Privacy policy disclosure

User data usage indicators (personalization settings, consent options)

User survey responses (DPP items)

Output:

Data Privacy Perception Score (DPP)

Steps:

Identify Data Collection Points

Identify categories of user data used for personalization (e.g., viewing history, preferences).

Evaluate Privacy Controls

Determine availability of user controls such as opt-out options, preference settings, and consent mechanisms.

Communicate Privacy Practices

Present simplified privacy notices explaining how data are collected, stored, and used for recommendations.

Capture User Responses

Collect user perceptions using privacy-related survey items (e.g., "I trust Netflix to protect my personal data").

Compute Privacy Perception Score

Aggregate survey responses to compute the **DPP score**.

Validate Consistency

Check internal consistency of DPP items using reliability measures.

Normalize Output

Normalize the DPP score for integration into the structural model.

End Algorithm

Integration into the Conceptual Framework

Algorithmic Transparency (AT) → Influences **Consumer Trust**

Data Privacy Perception (DPP) → Influences **Consumer Trust**

Both algorithms provide **quantitative inputs** for SEM/PLS-SEM analysis.

5. Discussion:

5.1 Interpretation of Results:

The results demonstrate that **AI-driven personalized recommendations significantly enhance consumer satisfaction**, both directly and indirectly through **consumer trust**. The significant paths from personalization to trust and from trust to satisfaction confirm that users' positive experiences with Netflix are not driven solely by recommendation accuracy, but also by their confidence in the system's reliability and fairness [1], [2]. The mediation effect indicates that trust functions as a **psychological mechanism** translating technical performance into experiential value, addressing the study's central research question.

However, comparatively lower mean scores for **algorithmic transparency (AT)** and **data privacy perception (DPP)** reveal persistent concerns regarding explainability and data use. This suggests that while users appreciate personalization outcomes, **opacity and privacy uncertainty can constrain trust formation**, potentially limiting long-term satisfaction and loyalty [3], [4].

5.2 Comparison with Previous Work:

These findings align with prior evidence that Netflix's recommender system plays a critical role in content discovery and engagement [1]. Consistent with broader AI personalization research, personalization is shown to reduce information overload and increase perceived value [2]. Unlike many technical recommender studies, this work empirically validates **trust as a mediating variable**, extending earlier conceptual arguments that trust is central to AI acceptance [11].

The significant effects of transparency and privacy on trust corroborate findings that **explainable AI increases user confidence**, while black-box algorithms erode trust even when performance is high [10], [6]. By contrast with studies that focus only on accuracy or engagement, this research integrates **ethical and behavioral dimensions**, offering a more comprehensive account of user responses to AI-driven recommendations.

5.3 Implications:

Theoretical Implications

The study advances human–AI interaction and technology acceptance literature by empirically integrating **personalization** → **trust** → **satisfaction** into a single model. It substantiates calls for **responsible AI** by showing that trust mediates value creation in AI services [20], [15].

Practical Implications

For OTT platforms such as Netflix, the results imply that **enhancing transparency cues** (e.g., brief explanations for recommendations) and **strengthening privacy communication and controls** can materially improve trust without sacrificing personalization effectiveness. These insights support the design of **trust-aware recommender systems** and inform AI governance practices [13], [17].

5.4 Limitations:

The study relies on **self-reported survey data**, which may introduce perceptual bias. Its **cross-sectional design** limits causal inference over time. Additionally, the exclusive focus on Netflix may constrain generalizability to other OTT platforms with different governance or recommendation architectures [14], [16].

5.5 Recommendations:

Future research should employ **longitudinal or experimental designs** to assess how trust evolves with repeated AI interactions. Combining **behavioral log data** with perceptual measures would strengthen causal claims. Comparative studies across OTT platforms could further clarify how differing transparency and privacy practices shape trust and satisfaction. Practically, platforms should prioritize **explainable AI, privacy-by-design**, and user-centric controls to sustain long-term trust and satisfaction [18], [15], [17].

6. Conclusion:

This paper explored the role of AI-enabled personalised content suggestions in influencing consumer trust and satisfaction in OTT platforms, and Netflix was the central case study. The results clearly indicate that personalised recommendations have a strong beneficial impact on consumer satisfaction through content relevance and less information load. Nevertheless, the findings also indicate that satisfaction does not ensure long-term positive user perception. The consumer trust is a key mediating factor in the context of converting algorithmic performance to meaningful and enduring satisfaction. The empirical findings underpin that perceived relevance and accuracy of recommendation have a positive impact on trust, whereas algorithmic transparency and perceptions of data privacy are equally significant predictors of trust formation. Transparency and privacy issues, even in case of effective recommendation, may undermine user trust in the system. This is one of the main conclusions of the work: the technical efficiency should be supported by moral and person-centered AI practices. Combining the constructs of personalization, trust, and satisfaction in one

framework allows the study to build on the current literature, which has largely addressed these constructs as independent entities. Practically, the findings imply that the OTT platforms should not be designed to enhance accuracy in recommendations only. They could instead invest in explainable recommendation interfaces, make the practice of data usage clearer, and enhance privacy controls. These steps may boost consumer confidence, which will further improve satisfaction and platform stability. In general, the study contributes to the argument that responsible and transparent AI is needed to create sustainable value in digital content platforms.

7. Future Scope:

Although the current research offers valuable details, there are still many possibilities that can be explored further. To begin with, further research may employ longitudinal research designs by evaluating the change in consumer trust and satisfaction with repeated exposure to AI-supported recommendations over time. This would assist in capturing dynamic changes in the user perception that cannot be completely elaborated in cross-sectional studies. Second, a combination of behavioral measures, including viewing logs, click-through rates, or watch duration with survey-based perceptions would be more comprehensive and objective in its representation of user reaction to personalization. The mixed-method approaches might enhance the causal inference and minimize self-report biases. Third, conducting comparisons between various OTTs, including Amazon Prime Video, Disney+, or local streaming services, would enhance the generalizability of the results and show the effects that various transparency and privacy practices have on trust. Comparisons between cultures and regions might also help to uncover the variation in trust in AI among groups of users. Fourth, further studies can expand the suggested framework to include some more variables, like perceived fairness, awareness of algorithmic bias, user control, or explainable AI capabilities. A deeper analysis of these aspects may help to better understand the influence of ethical AI design on consumer attitudes. Lastly, actionable advice that can be taken by practitioners would be experimental research on particular transparency cues or privacy-by-design interventions within the framework of recommendation systems. This work would go beyond analysis of perception and make direct contributions to the design of reliable and user-friendly AI recommendation systems. Overall, the study can be enhanced by future research through incorporating more extensive datasets, more comprehensive approaches, and more comparative lenses to gain a deeper insight into trust-aware AI personalization on OTT and other digital platforms..

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