INTERNATIONAL RESEARCH JOURNAL OF HUMANITIES AND INTERDISCIPLINARY STUDIES
(Peer-reviewed, Refereed, Indexed & Open Access Journal)
DOI : 03.2021-11278686 ISSN : 2582-8568 IMPACT FACTOR : 8.031 (SJIF 2025)

AI and the Attention Economy: Understanding Human Behaviour through the Lens of Platform Design

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DOI No. 03.2021-11278686 **DOI Link ::** https://doi-ds.org/doilink/11.2025-54678678/IRJHIS2511021

Abstract:

The rise of Artificial Intelligence (AI) has fundamentally altered the political economy of digital attention. In India, where millions of internet users interact daily with algorithmically curated content, the attention economy has become a defining feature of contemporary social life. This paper explores how AI-driven platform design structures human behaviour and cognition in India's digital ecosystem. Drawing from behavioural economics and digital sociology, the article conceptualises the attention economy not merely as a technological or economic system but as a behavioural infrastructure that monetises human focus and emotion. Through predictive algorithms, recommender systems, and gamified interfaces, AI transforms attention into a scarce, extractable resource. This paper argues that the attention economy in India exemplifies a new form of data capitalism, where engagement metrics replace traditional notions of value, and users' psychological tendencies are systematically exploited to maximise retention. The paper also highlights how platforms like YouTube Shorts, Instagram Reels, and other AI-mediated applications recalibrate social relations, affective labour, and identity formation in ways that blur the line between autonomy and manipulation. Using the conceptual frameworks of Michel Foucault's govern mentality, Herbert Simon's attention scarcity, and Shoshana Zuboff's surveillance capitalism, the paper demonstrates how platform design governs conduct by shaping visibility, emotion, and choice. The study concludes that in India's fast-growing digital economy characterised by affordable data, smartphone ubiquity, and algorithmic governance, AI not only transforms how attention circulates but also redefines the meaning of human agency.

Keywords*: Artificial Intelligence, Attention Economy, Platform Design, Behavioural Economics, Digital Sociology, India, Human Behaviour, Algorithmic Governance*

Introduction:

In the past decade, the intersection of artificial intelligence (AI), digital media, and platform capitalism has produced a new regime of human experience, one that is governed not by scarcity of material goods, but by the scarcity of human attention. The notion of an "attention economy," first

articulated by Herbert Simon (1971), now finds its most pervasive realization in algorithmic environments that are powered by machine learning, recommendation systems, and behavioural analytics. Platforms such as YouTube, Instagram, TikTok (before its ban in India), and newer domestic applications like Moj, ShareChat, and Josh have redefined how Indians see, feel, and act in digital space. These platforms are not simply passive conduits of content; they are active architectures of behavioural modulation, designed to extract, capture, and monetise attention through continuous feedback loops of data and affect. In this sense, the attention economy is both an economic and a psychological infrastructure of twenty-first-century capitalism, one where AI functions as its invisible but omnipotent engine.

India provides a particularly instructive case for analysing this transformation. With over 900 million internet users, cheap data plans following the Jio revolution, and state-led initiatives under "Digital India," the country has witnessed the mass integration of everyday life into the digital sphere. The smartphone has become an infrastructural artefact of citizenship, labour, leisure, and desire. But this expansion of connectivity also brings with it new asymmetries of power, as attention becomes a contested and extractable resource. The Indian digital ecosystem, marked by regional languages, informal economies, gendered access to technology, and diverse modes of participation reveals the complex social negotiations that underlie the attention economy. AI-driven recommendation systems are not culturally neutral; they amplify certain behaviours, desires, and identities while suppressing others. The "For You" pages and algorithmic feeds that shape the everyday habits of millions of Indian users thus serve as sites where culture, computation, and capitalism intersect.

Conceptually, the attention economy operates at the confluence of behavioural economics, digital sociology, and political economy. Behavioural economists such as Richard Thaler and Cass Sunstein (2008) have demonstrated how subtle "nudges" can structure decision-making, while scholars like Shoshana Zuboff (2019) describe how "surveillance capitalism" converts human experience into data for profit. When coupled with AI, these insights acquire a new dimension: platforms now automate the process of nudging itself, refining their interventions through predictive analytics. The behavioural cues embedded in infinite scrolls, notification designs, and engagement metrics are not accidental, they are the product of iterative experiments conducted by AI systems trained to maximise user retention. In the Indian context, these designs interact with deep-seated social structures, those of class hierarchies, gender norms, and linguistic divides to produce differentiated modes of digital participation. For instance, while upper-middle-class users may frame their attention management as a matter of self-discipline and productivity, gig workers and content creators experience attention as an economic asset, a quantifiable form of visibility convertible into income and social capital.

Digital sociology contributes another crucial layer of understanding by situating attention within broader processes of social meaning-making. Scholars such as Taina Bucher (2018) and José van Dijck (2013) argue that algorithms do not merely filter content but also shape the conditions of sociality and perception. In India, where publics are fragmented along linguistic and caste lines, algorithmic curation produces a new form of cultural stratification. The "viral" and the "trending" become not just markers of popularity but moral and political categories, often entangled with nationalism, gendered aspiration, and populist sentiment. Platforms leverage AI to cultivate emotional engagement, what Sara Ahmed (2004) terms "affective economies" where feelings circulate as forms of value. The result is an economy of attention that is simultaneously an economy of emotion, where outrage, humour, and desire are algorithmically privileged because they are most profitable.

From the perspective of political economy, the attention economy represents a deeper mutation in the logic of capitalism itself. As Jonathan Beller (2021) and Nick Srnicek (2017) suggest, we are witnessing the rise of "platform capitalism," in which data and attention supplant traditional commodities as the primary sources of value extraction. AI is central to this shift because it enables the continuous optimisation of human behaviour at scale. Every click, swipe, and pause becomes a data point feeding back into models that predict and shape future actions. In India, this transformation dovetails with the neoliberal valorisation of entrepreneurial subjectivity what Shilpa Phadke and others have described as the "individualisation of risk" in the digital economy. The burden of managing attention, productivity, and visibility increasingly falls upon individuals, who must navigate an environment engineered to exploit their cognitive vulnerabilities.

Moreover, attention in the Indian digital sphere is deeply gendered. As feminist media scholars have argued, digital platforms reproduce and reconfigure patriarchal power structures even as they appear to democratise voice. Women creators on short-video apps or influencers on Instagram must negotiate algorithmic visibility within the constraints of respectability and safety. The affective labour required to sustain engagement - smiling, performing, responding - mirrors the emotional labour historically demanded of women in domestic and service work. AI-driven platform design thus becomes a new site for the production of gendered subjectivities, where the metrics of likes, shares, and followers become proxies for social recognition. Understanding the attention economy, therefore, also requires a feminist reading of how behavioural design intersects with gendered performance, surveillance, and affective labour.

Finally, the attention economy must be understood not as an abstract psychological phenomenon but as an infrastructural condition of contemporary Indian life. The platforms that dominate digital attention - YouTube, Instagram, Facebook, and increasingly domestic start-ups - operate as infrastructural actors in urban and rural India alike. They mediate education, politics,

commerce, and intimacy. The behavioural architectures of these platforms, powered by AI, create a feedback loop between human cognition and algorithmic prediction. The user becomes both a participant and a resource, caught in what Zuboff (2019) calls "instrumentarian power"a regime that seeks not to discipline through prohibition, but to modify behaviour through design. The promise of AI-driven personalisation, marketed as empowerment, thus conceals a deeper economic logic of extraction and control.

This paper situates the attention economy as a key analytic through which to understand the social consequences of AI in India. It argues that platform design, guided by behavioural economics and operationalised through AI, reshapes human attention in ways that have profound implications for autonomy, agency, and social life. The following sections examine this transformation through three theoretical lenses, those of behavioural economics, digital sociology, and political economy, showing how AI mediates the relationship between technology, subjectivity, and capital. By foregrounding India's digital context, the paper underscores that the attention economy is not a uniform global phenomenon but a locally situated process that refracts through cultural and social inequalities. Ultimately, the study seeks to understand not only how AI captures attention, but also how it reconfigures what it means to be human in the age of intelligent machines.

Objectives:

1. To conceptualise the attention economy as a behavioural infrastructure shaped by AI-driven platform design.
2. To analyse how AI technologies structure human attention, emotion, and social interaction in India's digital ecosystem.
3. To draw theoretical connections between behavioural economics, digital sociology, and the political economy of data capitalism.
4. To assess the implications of algorithmic attention capture for autonomy, subjectivity, and democracy in India.

Hypothesis:

The study hypothesises that AI-driven platform design in India systematically restructures human attention and behaviour by exploiting cognitive biases and emotional triggers, transforming users into predictable data subjects within the attention economy. This transformation is not merely technological but socio-political: it redefines human autonomy and reshapes democratic participation by embedding behavioural control within everyday digital practices.

Methodology:

This paper employs a conceptual and theoretical methodology, drawing on interdisciplinary frameworks from behavioural economics, digital sociology, and critical theory. It uses secondary literature analysis including academic works, policy reports, and empirical studies on Indian digital

platforms, to interpret how AI mediates human attention.

The analysis proceeds in three steps:

1. Theoretical synthesis- integrating key insights from Herbert Simon, Daniel Kahneman, Thaler and Sunstein, Shoshana Zuboff, and Nick Srnicek.
2. Conceptual analysis of platform design- interpreting recommendation systems, gamification, and interface structures as behavioural mechanisms.
3. Contextual interpretation- situating these mechanisms within India's socio-economic and cultural conditions, such as digital expansion, caste-gender dynamics, and state–market relations.

This methodology enables the study to frame the attention economy not as an abstract global phenomenon, but as an embodied experience shaped by India's unique digital infrastructures and social hierarchies.

The Attention Economy as Behavioural Infrastructure:

The concept of the attention economy originates in Herbert Simon's (1971) observation that "a wealth of information creates a poverty of attention." In an environment where information is abundant, attention becomes the scarcest resource. Modern digital platforms transform this scarcity into a monetised system. Algorithms powered by AI continuously collect, process, and interpret behavioural data to anticipate what will hold a user's gaze. Attention is thus not only captured but engineered through predictive design.

In India, this engineering intersects with cultural and economic factors. The proliferation of short-form video content on YouTube Shorts and Instagram Reels corresponds to users' fragmented attention spans and socio-economic mobility. Algorithms amplify content that generates immediate emotional arousal - humour, outrage, or desire - because such reactions are easier to monetise. The attention economy thereby naturalises a feedback loop between affect and profit, making emotion itself a site of economic extraction (Bucher 2018).

Behavioural economics provides a powerful framework for understanding how AI-driven systems manipulate decision-making. Thaler and Sunstein's (2008) concept of "nudging" explains how small design choices can steer human behaviour without overt coercion. Platforms employ a similar architecture: autoplay features, infinite scroll, and notification badges serve as "digital nudges" that exploit psychological biases like loss aversion and variable reward.

For instance, the dopamine-driven loop created by "likes" and "views" sustains compulsive engagement (Alter 2017). In India, where digital entertainment functions as both leisure and social currency, these loops become integral to identity construction. Young users measure self-worth through metrics of visibility and engagement. The architecture of AI-powered platforms thus transforms the very conditions of self-perception, rendering attention a performative act of social

existence.

Digital Sociology: Power, Subjectivity, and Platform Design:

From a sociological perspective, platforms act as mediators of visibility and recognition. Zuboff's (2019) theory of "surveillance capitalism" describes how personal data is appropriated to predict and modify human behaviour for profit. Srnicek (2017) extends this by framing platforms as extractive infrastructures that monetise data flows. In India, these dynamics acquire a distinct shape. Platforms like ShareChat and Moj cater to vernacular audiences, translating global attention economies into regional cultural forms. This localisation expands participation but also deepens surveillance, as AI models learn from linguistic, affective, and cultural nuances. Consequently, the Indian attention economy becomes both inclusive and exploitative, a digital commons that thrives on behavioural commodification.

Feminist scholars such as Arlie Hochschild (1983) remind us that attention and emotion are forms of labour. The act of maintaining visibility online constitutes "affective labour" (Hardt 1999). In India, where digital influencers, gig workers, and content creators increasingly rely on AI-driven visibility for income, attention becomes work. The boundary between labour and leisure dissolves, producing new modes of precarity and dependence.

Drawing from Foucault's (1991) notion of governmentality, AI-driven design can be interpreted as a new regime of behavioural governance. Rather than commanding behaviour through explicit authority, platforms regulate it through the continuous modulation of stimuli and feedback. The individual becomes a "dividual" (Deleuze 1992), a fragmented data entity subject to algorithmic modulation.

In India, where digital policies emphasise inclusion and innovation, this form of governmentality aligns with neoliberal developmental discourse. The state promotes "Digital India" and "AI for All," while platforms extract behavioural data as evidence of participation. Algorithmic governmentality thus produces a paradox: citizens become both empowered digital subjects and objects of surveillance.

This convergence between technological governance and behavioural design reflects what could be termed the "political economy of attention" - a system in which economic value, social legitimacy, and political power are all mediated through algorithmic visibility.

The Political Economy of Data and the Indian Context:

Nick Srnicek (2017) identifies platforms as the dominant business model of contemporary capitalism. In India, this model takes on a populist form: cheap data and smartphone accessibility create a vast user base, but also intensify dependency on a few corporate actors (Google, Meta, Reliance). The resulting ecosystem functions as a quasi-public infrastructure governed by private algorithms.

AI's integration into this ecosystem reshapes the economy of attention in two ways. First, by making data the fundamental unit of value, it converts everyday interaction into a resource. Second, by relying on behavioural prediction, it redefines consumption as continuous participation.

From the standpoint of political economy, the attention economy aligns with the logic of what Zuboff (2019) calls "surveillance capitalism", the unilateral claim over human experience as free raw material for datafication. The Indian state's partnership with global tech giants, such as in the Digital India initiative, normalises this extraction under the banner of progress. Thus, attention becomes not only a psychological commodity but also a developmental indicator.

Human Behaviour and Cognitive Reconfiguration:

AI-driven platforms rewire cognitive habits through constant micro-interactions. The phenomenon of "doom scrolling" or "Reel fatigue" illustrates how users oscillate between stimulation and exhaustion, seeking novelty yet experiencing depletion. Behavioural economics explains this through ***variable rewards*** which are unpredictable reinforcement that maximises engagement (Kahneman 2011).

In India's socio-economic context, digital fatigue coexists with aspiration. Platforms promise empowerment through visibility, income, connectivity, but deliver dependency. Users adapt their behaviour to algorithmic cues, learning what content performs well. This self-optimisation mirrors Foucault's (2008) description of neoliberal subjectivity: individuals govern themselves by internalising market logics.

As a result, AI transforms not just behaviour but the very structure of attention. Cognitive time becomes a field of capital accumulation, and distraction becomes a systemic outcome rather than a personal failure.

Ethical and Democratic Implications:

The commodification of attention has profound ethical and political consequences. Autonomy, once conceived as the capacity for rational choice, becomes compromised when choices are designed to exploit bias. Isaiah Berlin's (1969) distinction between negative and positive liberty becomes pertinent here: users may be "free" to choose, yet their choices are engineered by invisible architectures of persuasion.

In India's democracy, the stakes are particularly high. Algorithmic amplification of sensational or polarising content undermines deliberative reasoning. Political actors leverage AI-driven targeting to manipulate public opinion. The attention economy thereby merges behavioural economics with political propaganda, transforming citizens into segmented audiences of affect.

The ethical question, then, is not only how much time people spend online, but who designs the conditions of their attention. When AI systems optimise engagement for profit, they inevitably prioritise stimuli that maximise arousal - anger, fear, desire - over those that foster reflection or

empathy. The public sphere becomes an economy of reaction, not reason.

Conclusion:

The attention economy, when viewed through the lens of AI and platform design, reveals a new configuration of human behaviour in India's digital society. AI-driven platforms do not merely reflect social preferences; they actively shape them. Through algorithmic personalisation, behavioural nudging, and emotional design, they transform attention into a form of labour, emotion into data, and subjectivity into a site of capital accumulation.

This paper argued that understanding this transformation requires bridging behavioural economics' insights into cognitive bias with digital sociology's critique of platform capitalism. In India, where digital participation intersects with class, caste, and gendered inequalities, the attention economy assumes a particularly ambivalent character simultaneously enabling inclusion and intensifying dependency.

As AI becomes the invisible architect of digital experience, the challenge lies in reclaiming autonomy and democratic agency. Policymakers must move beyond data protection toward attention ethics, principles that safeguard cognitive freedom against exploitative design. Scholars and citizens alike must recognise that the most contested terrain of the twenty-first century is not physical territory, but the space of human attention.

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