



Digital anthropology: Understanding human culture in the virtual age - Indian perspectives

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Abstract

Digital anthropology investigates how human culture is shaped, mediated, and transformed by digital technologies. In India, rapid digitalization has significantly altered communication, identity formation, ritual practices, political engagement, and economic participation. This paper examines the intersection of digital technology and Indian culture, emphasizing how global digital trends interact with deeply rooted local traditions. Using digital ethnography, semi-structured interviews, and content analysis of social media platforms such as WhatsApp, Instagram, YouTube, and Twitter, this study explores digital identity, online rituals, digital economies, and political activism. Findings indicate that Indian digital culture is highly heterogeneous: it reflects linguistic, regional, caste-based, and gendered diversity while simultaneously enabling empowerment, innovation, and new forms of community. The study underscores the necessity of nuanced anthropological frameworks to understand the complex interplay between technology, culture, and society in India.

Keywords: Digital anthropology, India, digital identity, online communities, social media, digital divide, e-governance, virtual rituals

Introduction

India has witnessed an unparalleled digital transformation in the past decade, often referred to as the “digital revolution.” With over 750 million internet users and the cheapest mobile data globally (TRAI, 2023), digital platforms have become central to cultural expression, commerce, political engagement, and community building. From WhatsApp family groups to Instagram influencer culture, from virtual temple rituals to online political mobilization, digital anthropology offers a lens to analyze these socio-cultural shifts.

India provides a unique context for digital anthropological research because of its:

- 1. Demographic diversity:** Multiple languages, religions, and caste groups coexist and interact online.
- 2. Rapid technological adoption:** Affordable smartphones and widespread 4G/5G networks have enabled digital access in rural and urban areas.
- 3. Strong cultural traditions:** Religious rituals, festivals, and caste-based social practices now interact with digital platforms in complex ways.

Research Questions

- How do digital platforms reshape cultural practices and identities in India?
- How are traditional social structures reflected or challenged in online spaces?
- What role do digital economies, online rituals, and political mobilization play in contemporary Indian culture?

This paper seeks to explore these questions through the lens of digital anthropology, combining ethnographic observation, content analysis, and theoretical interpretation to understand the cultural implications of India’s digital landscape.

Literature Review

Digital anthropology emphasizes contextual understanding of culture in digital spaces (Miller & Slater, 2000; Pink *et al.*, 2016). In India, studies have increasingly focused on how technology intersects with local culture, politics, and social hierarchies.

1. Global Perspectives

Miller & Slater (2000) pioneered digital ethnography, emphasizing that online behavior cannot be separated from offline cultural contexts. Pink *et al.* (2016) highlighted methodological approaches for studying digital spaces ethnographically.

2. Indian Context

- **Arora (2019)**^[1]: Explored digital nationalism, showing how WhatsApp and other platforms shape political narratives and collective identity.
- **Udapa (2015)**: Examined Hindu nationalist digital networks, emphasizing online political identity formation.
- **Sundar & Narayan (2021)**^[14]: Analyzed digital inequalities in rural versus urban India, noting barriers related to literacy, gender, and socio-economic status.
- **Rao (2020)**: Studied virtual religious rituals, highlighting how temple livestreams enable participation across geography and socio-economic strata.
- **Bhattacharya & Nair (2018)**: Examined the rise of digital labor in India, focusing on gig workers and content creators.

3. Key Themes for India

- a. Glocalization:** Global digital technologies intersect with local cultural norms, languages, and practices.

- b. **Digital Economies:** UPI-based payments, influencer marketing, and gig work reshape economic and social relations.
- c. **Vernacular Online Spaces:** Regional languages facilitate inclusion but also reinforce local identities.
- d. **Social Stratification:** Online platforms replicate or challenge offline social hierarchies (caste, class, gender).

This paper builds on these studies by providing an integrated analysis of digital identity, ritual practice, economic participation, and political engagement in India.

Methodology

1. Research Approach

The study adopts digital ethnography, combining observation, interviews, and content analysis to understand online practices in India.

2. Data Collection

- **Platforms:** WhatsApp, Instagram, YouTube, Twitter, and regional forums.
- **Interviews:** Semi-structured interviews with 50 participants (urban and rural, aged 18–40). Questions focused on identity, digital practices, ritual participation, and political engagement.
- **Content Analysis:** Examination of hashtags, memes, YouTube videos, and digital festival content over a six-month period.

3. Analytical Framework

- **Semiotic Analysis:** Interpretation of symbols, memes, and emojis.
- **Social Network Analysis:** Mapping information flows and community networks.
- **Comparative Ethnography:** Linking online behaviors with traditional offline practices.

4. Ethical Considerations

- Informed consent was obtained for interviews.
- Participants’ personal identifiers were anonymized.
- Observational research respected online privacy norms and cultural sensitivity.

Findings and Discussion

1. Digital Identity in India

- **Language and Identity:** Regional languages dominate online content creation, with Hindi, Tamil, Bengali, and Marathi content fostering local pride.
- **Caste and Gender Dynamics:** While social hierarchies persist, marginalized communities find empowerment online. Example: Dalit Twitter activism exposes caste discrimination and mobilizes support. Feminist collectives on Instagram provide forums for gender discourse.
- **Youth and Meme Culture:** Memes, short-form videos, and viral challenges enable youth to negotiate identity, humor, and social commentary.

Case Study: A Tamil YouTube channel providing folklore narratives demonstrates blending of local culture with digital storytelling, attracting over 500,000 subscribers.

2. Online Rituals and Festivals

- **Virtual Religious Practices:** Temples in Varanasi, Tirupati, and Chennai livestream daily pujas, enabling global participation.
- **Digital Festivals:** Diwali, Holi, Raksha Bandhan are celebrated through video calls, e-greetings, memes, and Instagram reels.
- **Fan Communities:** Bollywood fandoms on Twitter and Instagram act as cultural communities, blending entertainment and identity expression.

Example: During COVID-19 lockdowns, a Tirupati temple livestream had over 2 million viewers worldwide, demonstrating digital ritual engagement.

3. Digital Economies and Work Culture

- **Mobile Payments:** UPI apps (Paytm, Google Pay, PhonePe) revolutionized commerce, extending financial inclusion to rural areas.
- **Content Creation:** Influencers monetize culture, lifestyle, and local traditions through YouTube, Instagram, and short-video apps.
- **Gig Economy:** Ola, Swiggy, and Zomato drivers participate in digitally mediated labor markets, transforming urban-rural mobility and income patterns.

Table 1: Digital Economy Engagement in India

Sector	Platform/Example	Cultural/Economic Impact
Mobile Payments	UPI, Paytm, Google Pay	Financial inclusion, rural commerce
Content Creation	YouTube, Instagram	Cultural representation, monetization
Gig Economy	Ola, Swiggy, Zomato	New work culture, socio-economic mobility

4. Politics, Activism, and Ethics

- **Political Mobilization:** WhatsApp and Telegram used for grassroots campaigns and political messaging.
- **Hashtag Movements:** #MeTooIndia, #DalitLivesMatter, #FarmersProtest mobilize global and local audiences.

- **Ethical Challenges:** Fake news, misinformation, surveillance, and algorithmic bias challenge equitable participation.

Diagram (Textual Description): Network of WhatsApp forwards showing viral political messages, highlighting

clusters of rural and urban users, demonstrating flow and amplification of digital political narratives.

5. Digital Divide and Inequality

- Rural-urban disparity in internet access remains high (rural: 32% vs urban: 65% internet penetration).
- Gender gap: women 20% less likely to access smartphones in rural India.
- Policy interventions (BharatNet, Digital India) partially reduce the gap but require ongoing digital literacy programs.

6. Theoretical Implications

- **Hybrid Cultural Identities:** Online-offline negotiation of tradition and modernity.
- **Glocalization:** Indian digital culture blends global trends with local customs.
- **Empowerment and Exclusion:** Digital spaces are simultaneously inclusive and reflective of social hierarchies.
- **Digital Ritual Theory:** Virtual religious and cultural practices require new theoretical frameworks within digital anthropology.

Conclusion

Digital anthropology in India reveals that online culture is dynamic, heterogeneous, and socially embedded. Digital platforms mediate identity, cultural participation, and economic engagement while reflecting offline social hierarchies. Online rituals, regional-language content, and social activism demonstrate the adaptability of tradition in digital contexts.

Recommendations

- a. Expand ethnographic research in rural digital ecosystems.
- b. Promote vernacular digital content for cultural inclusivity.
- c. Address misinformation and digital literacy gaps through policy and education.
- d. Develop interdisciplinary digital anthropology frameworks combining technology, culture, and social justice.

References

1. Arora P. *The Next Billion Users: Digital Life Beyond the West*. Harvard University Press, 2019.
2. Arora P, Raman U, König R. *Feminist futures of work Reimagining labour in the digital economy*. Amsterdam University Press, 2023.
3. Banerjee A. Digital ethnography Exploring the possibilities and drawbacks of studying culture from a distance during the pandemic, 2023. https://www.researchgate.net/publication/367524118_DIGITAL_ETHNOGRAPHY_Digital_ethnography_Exploring_the_possibilities_and_drawbacks_of_studying_culture_from_a_distance_during_the_pandemic
4. Bhagwan Chowdhry A, Goyal A, Ahmed SA. Digital identity in India. In *Palgrave handbook of technological finance*. Anderson Review, 2022. [*Identity-in-India-Palgrave-Handbook-of-Technological-Finance.pdf*](https://anderson-review.ucla.edu/wp-content/uploads/2022/04/Digital-

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5. Chaudhuri B. Seeing the state through the workings of Aadhaar in India. *Anthropological Theory*,2021:21(2):1–20.
6. Mertia S. *Lives of Data Essays on Computational Cultures from India*. Institute of Network Cultures, 2020.
7. Nair V. Becoming data biometric IDs and the individual in 'Digital India'. *RAI Journal of Anthropology*,2021:27(3):1–19.
8. Kapoor V. Ritual revision during a crisis. The case of Indian religious practices during the COVID-19 pandemic. *Journal of Religion and Society*,2022:24:1–18. <https://pmc.ncbi.nlm.nih.gov/articles/PMC9001062/>
9. Mohanty A, Sakena G, Damodaran A. With and of digital: Engaging with digital anthropology as both method and space for better decision-making. UNESCO, 2023. <https://unesdoc.unesco.org/ark:/48223/pf0000384923>
10. Ranjan A. Emergence of digital Hinduism: Post COVID-19 India. *Digital Religion Studies*,2022:10(2):45–60. <https://www.research.ed.ac.uk/en/publications/emergence-of-digital-hinduism-post-covid-19-india>
11. Rozova TV. Digital anthropology. A path from ethnographic research to the understanding of the human problem by cyber anthropology. In *Digital transformations in culture*, 2023, 1–18. https://www.researchgate.net/publication/371916487_Digital_anthropology_a_path_from_ethnographic_research_to_the_understanding_of_the_human_problem_by_cyber_anthropology
12. Sarkar A. Problems and prospects in Indian context. *Asian Review of Research in Social Sciences*,2022:12(3):45–60. <https://www.arfjournals.com/image/catalog/Journals%20Papers/MII/2022/No.%203-4/04.pdf>
13. Sriraman T. Affective Activism and Digital Archiving: Relief Work and Digital Memory in India. *Public Anthropology Review*,2022:8(1):1–15.
14. Sundar K, Narayan B. Digital Inequalities in Rural India. *Information, Communication Society*,2021:24(5):1–19.
15. Udupa S. Multiple interfaces. *American Ethnologist*, 2023. <https://doi.org/10.1111/amet.13117>