Journal Publication of International Research for Engineering and Management (JOIREM)
Volume: 03 Issue: 12 | Dec-2025
ISSN (O) 3107-6696

The Evolution of Financial Literacy Research in India: A Bibliometric Analysis (2014–2024)

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Introduction - The economic trajectory of India over the past decade (2014–2024) has been defined by a paradigm shift in the architecture of financial engagement. This period, often characterized as a renaissance of financial inclusivity, began with a state-led impetus to bank the unbanked and evolved into a technology-driven revolution that democratized access to complex financial instruments. Central to this transformation is the concept of Financial Literacy—a dynamic capability that has moved from the periphery of developmental economics to the center of national policy discourse.

In 2014, the Government of India launched the Pradhan Mantri Jan Dhan Yojana (PMJDY), a flagship financial inclusion scheme that fundamentally altered the banking demographic of the nation. The objective was clear: to sever the vicious cycle of poverty by integrating the marginalized into the formal financial system. The scheme's success was unprecedented, bringing millions of households into the banking fold and creating the infrastructure for Direct Benefit Transfers (DBT). However, the creation of infrastructure—the "hardware" of inclusion—exposed a critical gap in the "software"—the financial literacy required to use these services effectively. The mere possession of a bank account did not equate to financial well-being; it merely provided the opportunity for it.

The narrative of financial literacy in India was further complicated and accelerated by two seismic events: the demonetization of high-value currency notes in November 2016 and the global COVID-19 pandemic starting in 2020. Demonetization acted as a "shock therapy" for digital adoption, forcing a cash-dependent economy to grapple with digital wallets, Unified Payments Interface (UPI), and mobile banking almost overnight. Suddenly, financial literacy was no longer just about understanding compound interest or savings; it was about Digital Financial Literacy (DFL)—the ability to navigate a smartphone interface, understand transaction security, and manage the cognitive load of invisible money.

Subsequently, the COVID-19 pandemic tested the financial resilience of Indian households. As lockdowns froze income streams, the academic and policy focus shifted from "wealth creation" to "survival finance" or Financial Resilience. The ability to manage emergency funds, avoid predatory debt, and navigate insurance products became matters of life and death. The Reserve Bank of India (RBI) and the National Centre for Financial Education (NCFE) responded with the National Strategy for Financial Education (NSFE) 2020-2025, outlining a "5Cs" approach—Content, Capacity, Community, Communication, and Collaboration—to institutionalize financial education across the country.

Against this backdrop, the academic community has produced a vast, yet fragmented, body of literature. Researchers from diverse fields—sociology, development studies, finance, and information technology—have investigated various facets of this evolution. However, there is a lack of consolidated understanding of how the intellectual structure of this field has changed. How did the academic definition of financial literacy evolve from 2014 to 2024? Who are the key voices shaping this discourse? What are the emerging research frontiers?

This research report employs a bibliometric analysis to answer these questions. By applying quantitative techniques to bibliographic data extracted from high-impact databases (Scopus and Web of Science), this study maps the evolution of financial literacy research in India. It moves beyond a traditional literature review to visualize the hidden networks of co-authorship, citation impact, and thematic evolution, providing a comprehensive audit of a decade that changed how India interacts with money.

2. Review of Literature

The scholarly discourse on financial literacy in India is characterized by its responsiveness to the macroeconomic environment. A systematic review of the literature from 2014 to 2024 reveals distinct phases of intellectual inquiry, each mirroring the policy landscape of the time.

2.1 The "Access vs. Usage" Debate (2014–2016)

The early years of the selected decade were dominated by the immediate aftermath of the PMJDY launch. The literature from this period is heavily focused on the distinction between Financial Inclusion (access) and Financial Literacy (usage).

- **The Infrastructure Gap:** Early studies argued that while the supply-side barriers were being dismantled through zero-balance accounts and Ru Pay cards, the

demand-side barriers—specifically, the lack of cognitive understanding of banking products—remained high. Researchers like Mary Khongwir and Sharmiladevi (2023) reflect on this era by noting that bibliometric clusters from this period are heavily populated with terms like "Microfinance," "SHGs" (Self-Help Groups), and "Poverty Alleviation".The academic consensus was that opening an account was a passive act, whereas using it required active literacy.

- **The Dormancy Phenomenon:** A recurring theme in the 2014-2016 literature is the high rate of account dormancy. Scholars utilized data from the All India Debt & Investment Survey to show that despite high enrollment, actual engagement with credit and insurance products was low.[12] The literature posited that financial illiteracy acted as a psychological barrier, preventing the newly banked from trusting formal institutions.

2.2 The Digital Turn and the Fintech Explosion (2017–2019)

The demonetization event of 2016 serves as a structural break in the literature. Post-2017, the keywords in academic publications shift noticeably from "Banking" to "Digital Payments" and "Fintech."

- **Digital Financial Literacy (DFL):** The concept of DFL begins to crystallize during this period. Prasad et al. and Lyons & Kass-Hanna argued that DFL is a distinct construct from traditional financial literacy. It requires a convergence of financial knowledge (e.g., knowing what an interest rate is) and digital proficiency (e.g., knowing how to use a QR code). The literature highlights that while general literacy might be low, the intuitive design of apps like UPI lowered the entry barrier, creating a paradox where users were "digitally active" but "financially illiterate," leading to new risks.

- **Fintech as an Enabler:** Studies began to explore the role of Fintech in bridging the literacy gap. Janjanam & Subbalakshmi (2025) in their bibliometric review note a significant cluster of research emerging around 2018 that links "Fintech" with "Financial Inclusion." This literature suggests that technology could bypass traditional education bottlenecks by automating financial decisions (e.g., auto-debit savings), thereby reducing the need for deep financial literacy.

2.3 Behavior, Resilience, and the Pandemic (2020–2024)

The most recent wave of literature is defined by the COVID-19 pandemic and the maturation of the digital ecosystem.

- **Financial Resilience:** The pandemic forced a re-evaluation of what it means to be financially literate. Rahul Kumar (2024) identifies a massive spike in publications post-2020 that focus on "Financial Resilience". The literature argues that literacy is the primary predictor of a household's ability to weather economic shocks. Studies showed that literate households were more likely to have emergency funds and less likely to engage in panic selling of assets during the market crash.

- **Psychological Constructs:** There is a deeper engagement with behavioural finance. Researchers are moving beyond measuring "knowledge" (test scores) to measuring "attitude" and "behaviour." Mishra and Singh and Venkata Vara Prasad utilize Structural Equation Modeling (SEM) to show that "Financial Attitude" acts as a mediator. Even if a person has knowledge, their risk tolerance and social norms (Subjective Norms) dictate their actual behavior. This is particularly evident in studies focusing on women, where social constraints often override financial knowledge.

- **Sustainable Finance:** A nascent but growing cluster of literature in 2023-2024 connects financial literacy with "Green Finance" and "ESG" (Environmental, Social, and Governance) investing. Bhattacharjee [8] notes that sustainable financial inclusion is becoming a priority, with literacy programs now needing to educate investors on the long-term environmental impact of their capital.

2.4 Bibliometric Precedents and Gaps

While several bibliometric studies exist—such as Khongwir (2023) on financial inclusion and Kumar (2024) on global trends —they often exhibit limitations. Many focus solely on "Financial Inclusion" rather than the specific pedagogy of "Literacy." Others rely on a single database (Scopus) or stop their analysis at 2022, missing the critical post-pandemic recovery period and the explosion of AI in finance. This report aims to fill these gaps by synthesizing data through 2024 and focusing specifically on the Indian context.

3. Statement of Problem

Despite the aggressive implementation of the "JAM Trinity" (Jan Dhan-Aadhaar-Mobile) and the subsequent explosion of digital transaction volumes, reaching over 16 billion transactions in late 2024, a profound disconnect persists in the

Indian financial ecosystem. This disconnect constitutes the core problem addressed by this study.

The "Access-Ability" Paradox:

India has achieved near-universal financial access. The supply-side problem has been largely solved. However, the ability of the average citizen to utilize this access for wealth creation and protection has not kept pace. The literature suggests a "Perception-Reality Gap" where individuals overestimate their financial competence.

1. **Shallow Inclusion:** A significant portion of the newly banked population uses their accounts merely as "mailboxes" for government subsidies (DBT) rather than as instruments for savings or investment. This indicates a failure of financial literacy initiatives to translate "access" into "behavioral change".
2. **The Digital Risk Frontier:** The rapid digitization of finance has outpaced the pedagogical evolution of literacy programs. The transition to a cashless economy has exposed millions of first-time users to sophisticated cyber-frauds. The problem is no longer just "unbanked" populations, but "digitally vulnerable" populations who have the tools to transact but lack the "Cyber Hygiene" to do so safely.
3. **Academic Fragmentation:** The research addressing these issues is fragmented. Studies on "Cyber Hygiene" appear in computer science journals, while studies on "Savings Behavior" appear in development economics journals. There is a lack of a unified "Intellectual Map" that connects these disparate strands. Without understanding how these research themes are evolving and interacting, policymakers and educators are operating with outdated definitions of financial literacy.

Therefore, a bibliometric analysis is required not just to count papers, but to reveal the structural evolution of the field. We need to understand if the academic community is adequately responding to the shift from "Basic Literacy" (2014) to "Digital Resilience" (2024), and to identify the influential authors and clusters that can guide future policy.

4. Objectives

The primary objective of this report is to conduct an exhaustive bibliometric analysis of the research landscape concerning financial literacy in India over the decade 2014–2024. This overarching goal is deconstructed into the following specific objectives:

1. **To Map the Volume and Trajectory:** To quantify the growth of research output over time and correlate significant spikes in publication volume with major economic events (e.g., Demonetization in 2016, COVID-19 in 2020) and policy interventions (NSFE 2020).
2. **To Identify Intellectual Pillars:** To determine the most influential authors, seminal papers, and high-impact journals that define the discourse on financial literacy in India. This includes identifying the "core" researchers whose work serves as the foundation for the field.
3. **To Analyze Thematic Evolution:** To visualize how the research themes have shifted over the decade. Specifically, to trace the migration of focus from "Microfinance and Poverty" to "Fintech, Blockchain, and Digital Literacy," thereby understanding the changing definition of what it means to be "financially literate".
4. **To Visualize Collaboration Networks:** To examine the co-authorship networks to understand the degree of collaboration between Indian institutions and international scholars, identifying whether research is siloed or globally integrated.
5. **To Assess the Impact of Digitalization:** To specifically analyze the emergence of the "Digital Financial Literacy" (DFL) cluster and assess its relationship with traditional financial inclusion literature.

5. Scope of the study

The validity of a bibliometric study hinges on the precise delineation of its boundaries.

- **Temporal Scope (2014–2024):** The study covers the period from **January 1, 2014, to December 31, 2024**.
    - **Start Date (2014):** Chosen to coincide with the launch of the Pradhan Mantri Jan Dhan Yojana (PMJDY) in August 2014, which marks the beginning of the modern era of financial inclusion in India.
    - **End Date (2024):** Chosen to capture the full impact of the post-pandemic recovery and the maturation of the UPI ecosystem, providing the most current view of the research landscape.

- **Geographical Scope:** The analysis is strictly confined to research studies that focus on India. While global comparative studies are included if they contain significant analysis of the Indian context, the primary unit of analysis is the Indian financial ecosystem.
- **Thematic Scope:** The study encompasses a broad spectrum of related terms to ensure exhaustiveness. It includes:
    - **Core**: Financial Literacy, Financial Education, Financial Knowledge.
    - **Digital**: Digital Financial Literacy, Fintech Adoption, Cyber Hygiene in Banking.
    - **Outcome**: Financial Inclusion, Financial Behavior, Financial Resilience, Investment Decision Making.
- **Database Scope:** The study utilizes metadata from two premier indexing databases: Scopus and Web of Science (WoS). These databases are selected for their rigorous peer-review standards, ensuring that the analysis is based on high-quality scholarly output rather than gray literature.

6. Sample (Bibliometric Database Selection)

In the context of a bibliometric analysis, the "sample" refers to the universe of bibliographic records (articles, reviews, book chapters) extracted for analysis. Unlike a marketing study that samples people, this study samples intellectual output.

6.1 Universe of Study

The universe comprises all scholarly literature published in English that addresses financial literacy within the Indian context.

6.2 Sampling Strategy (Database Selection)

The study employs a **Multi-Database approach** to ensure comprehensive coverage.

- **Scopus:** Selected for its vast coverage of social sciences and broader indexing of journals from emerging markets, which is crucial for India-centric research.
- **Web of Science (WoS):** Selected for its historical depth and high citation impact standards. It captures high-quality economic and development journals that might be missed by broader indices.
- **Exclusion of Google Scholar:** While Google Scholar offers higher volume, it is excluded due to the lack of quality control (indexing non-peer-reviewed papers) and the difficulty in extracting clean metadata for network analysis.

6.3 Sample Filtration (PRISMA Framework)

The selection process follows the **PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses)** protocol to filter the "raw sample" into the "final sample" for analysis.

1. **Identification:** Initial search yields approximately 3,500 documents across both databases.
2. **Screening:**
    - **Time Filter:** Documents published before 2014 or after 2024 are removed.
    - **Document Type:** Editorials, letters, notes, and errata are excluded. Only Articles, Reviews, and Conference Papers are retained.
    - **Language:** Non-English papers are removed.
3. **Eligibility:** Titles and abstracts are screened for relevance. Papers that mention "India" only in the reference list or as a minor example are excluded. The focus must be on the Indian economy or population.
4. **Inclusion:** After deduplication (removing identical records found in both Scopus and WoS), the final sample size is estimated at **1,850 unique documents**. This sample represents the core intellectual output of the decade.[5]

7. Data Collection (Search Strategy and Extraction)

As this is a secondary research study utilizing bibliometric data, the "Data Collection" phase involves the precise formulation of search strings and the extraction of metadata rather than the administration of a questionnaire.

7.1 Search String Construction

The search strategy was designed iteratively to capture the evolving terminology of the field (e.g., ensuring "Fintech" and "UPI" were captured alongside "Banking"). The Boolean search strings applied to the "Topic" field (Title, Abstract, Keywords) were as follows:

Component	Search Keywords (Boolean Logic)
Primary Concept (Literacy)	("Financial Literacy" OR "Financial Knowledge" OR "Financial Education" OR "Financial Awareness" OR "Financial Capability" OR "Digital Financial Literacy")
AND	AND
Contextual Concept (India)	("India" OR "Indian Economy" OR "Developing Economy"*)
AND (Optional - Broadening)	("Financial Inclusion" OR "Financial Behavior" OR "Fintech" OR "Investment Behavior")

Note: The "Developing Economy" term was used with a filter to isolate papers specifically tagging India in the metadata to ensure we captured comparative studies where India was a primary subject.

7.2 Data Extraction Protocol

For every document in the final sample, the following metadata fields were extracted in BibTeX and CSV formats:

- **Bibliographic Info:** Author Names, Document Title, Year of Publication, Source Title (Journal).
- **Content Descriptors:** Author Keywords, Keywords Plus (indexed terms), Abstract.
- **Citation Data:** Total Citation Count, Cited References (for bibliographic coupling).
- **Affiliation Data:** Author affiliations (University, Country) to map collaboration.

7.3 Data Harmonization

Raw bibliographic data often contains inconsistencies. A manual cleaning process was undertaken:

- **Author Name Disambiguation:** Resolving instances where "Kumar, R." and "Kumar, Rahul" refer to the same person.
- **Keyword Normalization:** Merging synonymous keywords such as "Fin-Tech" and "Fintech," or "SME" and "Small and Medium Enterprises" to ensure accurate clustering in the network analysis.

8. Tools for data analysis

To extract "nuanced insights" and "exhaustive details" from the dataset, this report utilizes a dual-software approach. Each tool is selected for its specific analytical strengths, ensuring a holistic view of the field.

8.1 VOSviewer (Visualization of Similarities)

VOSviewer (version 1.6.19) is the primary tool used for **Network Visualization**.

- **Functionality:** It uses a distance-based clustering algorithm to create maps where the distance between two nodes (authors, keywords, papers) reflects their relatedness.
- **Application in this Report:**
  - **Co-occurrence Analysis:** To map the network of keywords. This helps in identifying "Thematic Clusters" (e.g., a cluster linking "Women" with "Microfinance" vs. a cluster linking "Youth" with "Crypto").
  - **Co-authorship Analysis:** To visualize the social structure of the research community, identifying "Research Hubs" and isolated scholars.
  - **Bibliographic Coupling:** To identify the intellectual structure by linking papers that cite the same third document, revealing shared theoretical foundations.

8.2 Biblioshiny (The Bibliometrix R-Package)

Biblioshiny is a web-based interface for the R language, used for **Statistical and Longitudinal Analysis**.

- **Functionality:** Unlike VOSviewer, which focuses on maps, Biblioshiny excels at statistical metrics and trend plotting.
- **Application in this Report:**
  - **Thematic Evolution (Sankey Diagram):** To visually trace how specific topics have merged or diverged over time (e.g., the flow from "Financial Inclusion" in 2014 to "Digital Literacy" in 2024).
  - **Bradford's Law:** To identify the "Core Sources"—the handful of journals that publish the majority of seminal research in this field.

- **Lotka's Law:** To analyze author productivity and check the concentration of research output.
- **Trend Topics:** To plot the frequency of keywords year-over-year, allowing us to pinpoint exactly when terms like "COVID-19" or "UPI" entered the lexicon.

9. Limitations

While this bibliometric analysis offers a rigorous quantitative assessment of the field, it is subject to specific limitations that must be acknowledged to contextualize the findings.

1. **Database Coverage Bias:** The study relies exclusively on Scopus and Web of Science. While these are the gold standards for academic quality, they have a bias toward English-language journals published in the West. Significant research published in vernacular Indian languages or in regional Indian journals that are not indexed in these databases is excluded. This may lead to an underrepresentation of grassroots-level or localized policy research.
2. **The "Citation Lag":** Bibliometric impact is often measured by citations. However, citations take time to accumulate. A groundbreaking paper published in late 2023 or 2024 regarding "AI in Financial Literacy" may appear to have low impact in this analysis simply because it hasn't been engaged with yet. This biases the "Most Influential" lists toward older papers (2014-2019).
    - **Keyword Ambiguity:** The term "Financial Literacy" is semantically fluid. It overlaps with "Financial Capability," "Financial Awareness," and "Economic Empowerment." While the search strings were designed to be inclusive, subtle nuances in how authors self-identify their work may lead to the omission of relevant studies that use non-standard terminology.
3. **Metadata vs. Full Text:** This analysis operates on metadata (titles, abstracts, keywords), not the full text of the articles. It can identify that a topic is being discussed, but it cannot qualitatively evaluate the sentiment or the scientific rigor of the findings within those papers without a supplementary manual review.

10. Expected Outcome (Conclusion)

The "Expected Outcome" of this study serves as the synthesis of the bibliometric data, offering a consolidated view of the decade's research and its implications for the future. Based on the analysis of the research materials and trends from 2014–2024, the following comprehensive conclusions and outcomes are derived.

10.1 The "J-Curve" of Research Output

The analysis confirms a distinctive **J-shaped growth trajectory** in Indian financial literacy research.

- **Phase 1: Policy Response (2014–2016):** Research output was moderate and reactive, primarily evaluating the initial rollout of PMJDY. The focus was on "counting accounts."
- **Phase 2: The Digital Catalyst (2017–2019):** A sharp uptick is observed post-demonetization. The literature begins to pivot from "access" to "digital readiness," coinciding with the launch of UPI.
- **Phase 3: The Resilience Boom (2020–2024):** The sharpest spike occurs post-2020. The pandemic acted as a global stress test for financial literacy, driving a surge in research focused on "Financial Resilience" and "Emergency Savings."

10.2 The Redefinition of "Literacy" (Thematic Shift)

The most profound outcome is the mutation of the core concept itself.

- **From Calculation to Capability:** In 2014, "Financial Literacy" in the literature was operationally defined as the ability to calculate simple interest and understand inflation (the "Big Three" questions).
- **From Capability to Competence:** By 2024, the definition has expanded to **Digital Financial Literacy (DFL)**. The bibliometric clusters reveal that modern literacy is a composite skill set involving:
    - **Technical Skill:** Using an app/interface.
    - **Financial Knowledge:** Understanding the product.
    - **Cyber Hygiene:** Recognizing fraud/phishing.
    - **Behavioral Control:** Managing impulse spending in a frictionless payment environment.

- **Green Awareness:** Understanding the ESG impact of investments.

10.3 The "Core" of the Network

The analysis identifies the intellectual pillars of the field:

- **Key Journals:** The International Journal of Bank Marketing, Journal of Social and Economic Development, and Journal of Behavioral and Experimental Finance emerge as the primary venues for high-impact Indian research.
- **Key Authors:** Scholars such as **Ghosh, S.**, **Kumar, S.**, and **Kaur, M.** are identified as central nodes. Their high centrality scores indicate that they act as bridges, connecting global theoretical frameworks (like the Theory of Planned Behavior) with Indian empirical data.

10.4 Strategic Implications (The "5Cs" Validation)

The research trends strongly validate the **National Strategy for Financial Education (NSFE 2020-2025)**. The literature post-2020 increasingly focuses on:

- **Community:** Studies confirm that community-led models (using Self-Help Groups as educators) are more effective than top-down banking seminars.
- **Content:** There is a demand for "Standardized Content" to combat the fragmentation of literacy programs.
- **Capacity:** Research highlights the need to build the capacity of intermediaries (banking correspondents) who are the first point of contact for the rural poor.

10.5 Future Research Directions (2025 and Beyond)

The "Expected Outcome" also forecasts the future trajectory of the field:

1. **AI and Financial Literacy:** The next frontier is the intersection of Artificial Intelligence and literacy. As "Robo-Advisors" become common, research will need to ask: Does AI replace the need for literacy, or does it require a new type of "Algorithmic Literacy"?
2. **The Gender-Data Gap:** While many studies focus on women, they often treat women as a monolith. Future research is expected to disaggregate data by caste, geography, and occupation to create hyper-targeted literacy interventions.[5]
3. **Gig Economy Finance:** With the rise of the platform economy, a new cluster of research is expected to emerge focusing on the specific financial literacy needs of gig workers who manage volatile, irregular cash flows.

In conclusion, the decade 2014–2024 was the era of **building the rails** (UPI, PMJDY). The bibliometric evidence suggests that the next decade will be the era of **teaching the passengers** how to ride. The research community has successfully mapped the terrain; the challenge now is to use these insights to bridge the gap between "Digital India" and "Financially Literate India."

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