

Topic Modeling of Academic and Professional Engagements of Professor KP Singh

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This study presents a quantitative, topic modeling based analysis of the academic and professional engagements of Professor KP Singh, Department of Library and Information Science, University of Delhi. We examine 355 documented engagements conducted between 2004 and 2026. Using topic modeling as the primary analytical approach, along with descriptive statistics and audience classification, latent thematic structures, interdisciplinary orientations and patterns of scholarly outreach were identified. The findings reveals dominant focus on core LIS domains, including Library Science, LIS education, and Knowledge Organization, alongside a substantial engagement with technology-driven themes such as digital transformation, automation, and ICT. Interdisciplinary clusters related to research ethics, Indian Knowledge Systems, Gandhian philosophy and emerging areas such as artificial intelligence highlight the approach to evolving academic and policy priorities. Audience and institutional analyses demonstrate more national outreach, sustained academic leadership and measurable international attendance. Overall, the study demonstrates the utility of topic modeling as an objective and replicable method to evaluate the academic engagements and scholarly impact which is beyond the traditional bibliometric indicators in LIS and its related disciplines.

Keywords: *Professor KP Singh, Library and Information Science, Topic Modeling, Academic Outreach, Audience Analysis, Professional Development*

0 INTRODUCTION

The role of senior academics in Library and Information Science (LIS) extends beyond formal teaching and research publications to include professional training, curriculum development, and national-level academic outreach. Through workshops, refresher courses, invited lectures and expert consultations, LIS professionals can contribute to the advancement and professional development of educators, students and researchers. Professor KP Singh, Department of Library and Information Science, University of Delhi, is a prominent contributor to LIS education and professional development. His academic engagements span universities, research institutions, government organizations and various other professional bodies across India¹. These activities reflect both disciplinary continuity and awareness towards emerging trends in Information Science.

This paper undertakes a structured analysis of the thematic content and audience profile of Professor Singh's academic engagements over the years, providing a data-driven perspective on his professional influence. By integrating topic modeling with descriptive statistical analysis, the study aims to systematically identify dominant and emerging thematic clusters, assess interdisciplinary orientations and contextualize patterns of scholarly outreach. In doing so, the paper demonstrates the methodological value of topic modeling for evaluating academic contributions beyond publication-centric and purely descriptive approaches in LIS and related disciplines.

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1 BACKGROUND OF THE STUDY

Academic engagement outside formal publications such as keynote addresses, invited talks and leadership roles in scholarly events constitutes an important dimension of scholarly influence, knowledge dissemination, and professional networking². In disciplines such as Library and Information Science (LIS), these activities complement traditional research outputs by facilitating community building, professional development and interdisciplinary dialogue³. Professor KP Singh, currently serving as a Professor in the Department of Library and Information Science at the University of Delhi, has an extensive record of such engagements spanning local, national and international platforms⁴. His work encompasses core LIS topics as well as emerging areas such as digital transformation, artificial intelligence applications in information services and ethics in information practice⁵. Analysing these documented engagements provides insight into patterns of scholarly activity, thematic evolution and outreach impact over time. Moreover, combining quantitative distribution analysis with topic modeling allows for the identification of latent thematic structures and interdisciplinary orientations within the corpus of Professor Singh's academic engagements^{6,7}. The present study is situated in this context to systematically examine and interpret these patterns.

Various studies in recent years have analysed the professional work of personalities across numerous backgrounds and subject areas. A few notable ones in recent years show a steep increase in scientometric studies on the life works of eminent personalities involved in various fields of work. These studies analyses the quantitative and qualitative progresses of the personalities over the years. For instance, Gupta. Et. Al⁸ carries out the bibliometric analysis of the research output of Dr. Raju Vaishya from the year 2008 to 2024. The study reports 318 scopus publications with 6,834 citations, which stated strong productivity of the clinical scientist specially during the period of 2020-2024 during which he published 208 articles. Harish⁹ carried out Scientometric analysis on 24 years of work of Professor KP Singh (2002- Feb, 2025). The study analysed his 235 published works which included 16 books, 119 Journal articles, 21 edited books, 26 book chapters and 35 and 18 conference papers and book reviews respectively. Further his h-index and collaboration details were also discussed. Agashe, Lihitkar and Lihitkar¹⁰ posthumously analyzed the works of Pogula Sesha Giri Kumar stating his immense contribution to the field of Library and Information Science. His contribution along with various professional designations include 63 books, 118 journal articles, 68 seminar or conferences papers, 168 lectures, 79 reviews and 20 reports. The study further explains the various roles he played and the institutions he led for the growth of Library professionals across India. Similarly, Bankapur¹¹; Satija¹² analysed the lifeworks of Dr. P.S.G. Kumar and gives us a descriptive overview of the philosophy and life of Dr. Kumar highlighting his influence in shaping the modern LIS field. Dhar¹³ carried out scientometric analysis of research output of Nobel Laureate Carolyn Ruth Bertozzi. The data was extracted from google scholar and it was found that she published a total of 922 documents with overall citations of 81,269 during the period of 1970-2023. Her collaboration works and publication patterns were also discussed in the article along with the high level of influence she had in the field of Chemistry.

2 RESEARCH METHODOLOGY

The study employs a quantitative and descriptive research design to systematically analyse the academic and professional engagements of Professor KP Singh in the field of Library and Information Science (LIS). The study integrates descriptive statistical techniques along with topic modeling to assess academic productivity, thematic orientation, interdisciplinarity, and professional impact.

Data Source and Dataset

The dataset comprises of 355 documented academic engagements conducted between 2004 to 2026. The dataset was compiled from authenticated institutional records and official academic sources and each record

represents a single engagement, including invited lectures, keynote addresses, workshops, conferences, faculty development programmes and leadership roles.

Descriptive and Relational Analysis

Descriptive statistical techniques were applied to compute the frequency counts and percentage distributions across all variables. Cross-tabulation analysis was used to further examine relationships among the key dimensions including temporal trends, thematic focus, audience categories and institutional distribution.

Topic Modeling and Thematic Identification

To identify the thematic structures underlying the academic engagements, topic modeling was applied to the textual corpus comprising engagement titles and thematic descriptors. The topic modeling process was implemented in a structured and multi-stage process.

First, textual data was pre-processed through lowercasing, removal of stop words, elimination of punctuation and numerals and normalization of terms to reduce noise and jargon. Second, the cleaned corpus was transformed using Term Frequency-Inverse Document Frequency (TF-IDF) vectorization to capture the relative importance of discriminative terms across engagements.

Third, Non-negative Matrix Factorization (NMF) was employed to decompose the TF-IDF matrix into a set of latent topic components. NMF was selected due to its suitability for short, structured academic texts and its ability to generate interpretable parts-based topic representations. NMF was preferred over probabilistic topic models such as LDA due to its superior interpretability and effectiveness for short, structured academic texts such as event titles and descriptors. The optimal number of topics was determined through iterative experimentation, guided by semantic coherence and interpretability rather than statistical fit alone¹⁴.

Each topic was interpreted using its highest loading keywords and subsequently consolidated into broader, meaningful thematic categories. The frequency of engagements associated with each consolidated theme was computed to generate the counts and percentage distributions reported in Table 5.4. The derived themes were further mapped to engagement metadata to examine thematic concentration, interdisciplinarity, and temporal evolution over the study period.

Assessment of Academic Performance and Impact

Based on the integrated analyses, key quantitative indicators such as engagement volume, leadership roles, audience reach, institutional diversity, and international participation were derived to evaluate academic performance and professional impact. The combined use of descriptive statistics and topic modeling provides a transparent, replicable, and data-driven framework for assessing academic and professional contributions beyond traditional bibliometric measures.

3 OBJECTIVES OF THE STUDY

- To analyse the year-wise distribution and productivity trends of the academic and professional engagements.
- To assess the level-wise and geographic distribution of the academic engagements to evaluate outreach and international visibility.
- To examine the types of events and academic roles undertaken by Professor KP Singh to assess leadership and scholarly recognition.

- To use topic modeling techniques to identify dominant themes in the lectures with emphasis on interdisciplinary contributions.
- To examine the distribution of audience categories to assess the outreach of Professor KP Singh's academic engagements.
- To analyse the distribution of organizing and host institutions to assess the outreach of academic engagements.
- To compute key quantitative indicators for evaluating the academic performance and professional impact of Professor KP Singh.

4 RESULTS AND DISCUSSION YEAR-WISE DISTRIBUTION OF ACADEMIC AND PROFESSIONAL ENGAGEMENTS

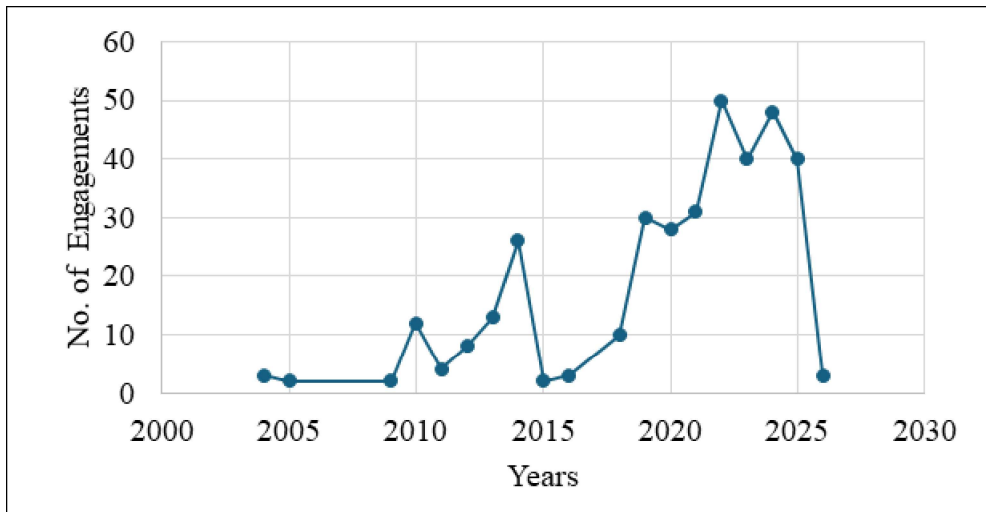
The year-wise analysis reveals a sustained and progressive scholarly trajectory over the years. The distribution demonstrates consistent participation in academic forums, with a notable increase in engagements during periods corresponding to heightened national and global focus on digital transformation, artificial intelligence, higher education reforms and research ethics.

Table 1: Yearwise Distribution of Engagements

No.	Year	Count	Percentage
1	2026	3	0.85%
2	2025	40	11.27%
3	2024	48	13.52%
4	2023	40	11.27%
5	2022	50	14.08%
6	2021	31	8.73%
7	2020	28	7.89%
8	2019	30	8.45%
9	2018	10	2.82%
10	2016	3	0.85%
11	2015	2	0.56%
12	2014	26	7.32%
13	2013	13	3.66%
14	2012	8	2.25%
15	2011	4	1.13%
16	2010	12	3.38%
17	2009	2	0.56%
18	2005	2	0.56%
19	2004	3	0.85%
Total		355	100.00%

Table 1 presents the year-wise distribution and percentage share of academic and professional engagements

of Professor KP Singh over the study period. The data reveal that the highest level of activity was recorded in 2022, contributing 14.08% of the total engagements, followed by 2024 (13.52%), and 2023 and 2025 (11.27% each). This indicates a phase of sustained and peak academic productivity during the recent years.



The year-wise analysis reveals a sustained and progressive scholarly trajectory over the years. Moderate levels of engagement are observed between 2019 and 2021, collectively accounting for a significant proportion of the total output, reflecting steady professional involvement. In contrast, the early years (2004-2011) show relatively low contributions, each accounting for less than 2% individually, indicating a formative phase of academic activity. Overall, the distribution highlights a clear upward trend in academic engagements over time, with substantial concentration in the last decade, underscoring increasing academic influence and professional outreach.

GEOGRAPHIC DISTRIBUTION OF ACADEMIC ENGAGEMENTS

Table 2: *Geographic Distribution of Academic Engagements*

Sl. No.	Category	Count	Percentage
1	National	204	57.63%
2	Local	107	29.94%
3	International	38	10.73%
4	State	6	1.41%
5	Total	355	99.71%

Table 2 presents the geographic distribution of the academic and professional engagements of Professor KP Singh across different levels. The result indicates that a majority of engagements were conducted at the national level (57.63%), demonstrating strong recognition and academic visibility across India. Local-level engagements (29.94%) constitute a substantial proportion, reflecting sustained institutional and regional involvement. International engagements (10.73%) highlight Professor KPSingh's global academic outreach and participation in international forums. The relatively smaller share of state-level engagements (1.41%)

suggests a greater emphasis on national and international platforms rather than region-specific events.

TYPES OF EVENTS AND ACADEMIC ROLES

The analysis of event types and academic roles highlights the leadership stature and scholarly recognition of Professor KP Singh within the academic and professional community.

Table 3: *Distribution of Academic Roles*

No.	Role	Count	Percentage
1	Invited Speaker	113	31.83
2	Chief Guest	95	26.76
3	Keynote Speaker	71	20.00
4	Welcome Address	30	8.45
5	Guest of Honour	14	3.94
6	Organizer	10	2.82
7	Chair	6	1.69
8	Presidential Address	5	1.41
9	Panelist	4	1.13
10	Distinguished Guest	2	0.56
11	Special Invitee	1	0.28
12	Moderator	1	0.28
13	Leader	1	0.28
14	Conference Director	1	0.28
15	Address as Director	1	0.28
	Total	355	

Table 3 shows that out of 355 total engagements, Professor KP Singh held 355 role-specific academic responsibilities. He was most frequently invited as Invited Speaker (113) followed by Chief Guest (95), Keynote Speaker (71) and Welcome Address (30) indicating strong scholarly recognition. Roles such as Guest of Honour and Welcome Address reflect his ceremonial and academic prominence. Leadership positions including Chair, Organizer and Conference Director highlight his active role in academic governance. The presence of combined and specialized roles further demonstrates institutional trust. Overall, the distribution confirms Professor KP Singh's sustained academic leadership and professional impact.

TOPIC MODELING-BASED THEMATIC ANALYSIS OF ACADEMIC CONTRIBUTIONS

Thematic analysis of academic contributions was conducted using topic modeling techniques applied to the textual corpus of engagement titles and thematic descriptors. The extracted topic clusters were subsequently interpreted and consolidated into coherent thematic categories based on high-loading keywords. Unlike manual thematic classification, the topic modeling approach enabled the identification of latent semantic

patterns based on term co-occurrence, thereby reducing subjective bias and enhancing analytical objectivity. The resulting distribution of dominant themes derived from the topic modeling process is presented in Table 4.

Table 4: *Thematic Analysis of Academic Contributions*

No.	Main Theme	Count	%
1	Library Science / LIS / Knowledge Organization	103	29.01
2	Digital Transformation / Automation / ICT	70	19.72
3	Gandhi / Non-violence / Hindi / Freedom	39	10.99
4	Other / Unclassified	37	10.42
5	Indian Knowledge / Spirituality / Yoga	26	7.32
6	Research Ethics / IPR / Integrity	27	7.61
7	Youth / Leadership / Career / Communication	12	3.38
8	Nation-building / Viksit Bharat / G20 / Azadi	11	3.10
9	Culture / Literature / Arts / Festivals	11	3.10
10	AI / Machine Learning / Metaverse	10	2.82
11	Ambedkar / Constitution / Inclusion	9	2.54
12	Total	355	100.00%

Table 4 shows the major themes of engagement. Topic modeling identified a set of distinct thematic clusters that reveal the underlying intellectual structure and interdisciplinary breadth of Professor KP Singh's academic engagements. As shown in Table 5.4 and Figure 5.2, the dominant cluster corresponds to Library Science, LIS and Knowledge Organization, accounting for 29.10% of the total themes, reaffirming Professor Singh's primary disciplinary focus. The second most prominent cluster, Digital Transformation, Automation and ICT (19.20%), reflects sustained engagement with technology-driven developments in information services.

Additionally, the clusters related to Gandhian philosophy and national values (10.20%) and Indian Knowledge Systems (7.20%) indicate thematic convergence between LIS and other socio-cultural discipline. Moderately represented clusters on research ethics, youth development and nation-building further underscore a strong orientation toward academic responsibility and societal relevance. Overall, the topic modeling based thematic distribution demonstrates a balanced integration of core LIS scholarship with emerging technologies, ethical considerations and national priorities. The topic modeling approach was particularly effective in revealing interdisciplinary convergence across LIS, technology, ethics and socio-cultural domains that may not be evident through manual thematic categorization. These findings directly identify dominant and emerging thematic domains through topic modeling techniques.

DISTRIBUTION OF AUDIENCE

Audience analysis demonstrates the breadth, inclusivity and societal reach of Professor KP Singh's academic contributions.

Table 5 : Distribution of Audience

Sl. No.	Audience Category	Count	Percentage
1	Teachers / Faculty / Academicians	132	32.20%
2	Teachers + Students + Researchers	96	23.40%
3	LIS Professionals / Librarians	78	19.00%
4	Teachers + LIS Professionals	34	8.30%
5	Students / Research Scholars	26	6.30%
6	Experts / Invited Speakers	24	5.90%
7	General Public / Community	10	2.40%
8	Scientists / DRDO / Technocrats	7	1.70%
9	Media / Social Groups	3	0.70%
10	Total	410	100%

Table 5 and show that the primary audience for Professor KP Singh's academic engagements comprises teachers, faculty and academicians (32.20%), indicating a strong focus on higher education and faculty development. Combined groups of teachers, students and researchers (23.40%) and LIS professionals/librarians (19.00%) further reflect broad academic and professional outreach. Engagements involving mixed academic and professional audiences highlight interdisciplinary interaction and knowledge exchange. However, the presence of professionals, school librarians, administrators and community groups underscores Professor KP Singh's multi-level outreach extending beyond academia into professional and societal domains. Overall, the distribution demonstrates Professor KP Singh's wide-ranging influence across academic, professional and societal domains.

DISTRIBUTION OF ORGANIZER OR HOST INSTITUTIONS

The distribution of academic engagements across different organizing and host institutions helps identify the extent of institutional collaboration, outreach and diversity of platforms through which the academic contributions were disseminated.

Table 6: Distribution of Organizer and Host Institutions

No.	Organizer / Host Institution	Frequency	Percentage
1	Others (single / ≤ 3 occurrences each)	69	19.00%
2	University of Delhi (Departments & Colleges; excluding Gandhi Bhawan)	62	18.00%
3	Commission for Scientific & Technical Terminology (CSTT), Govt. of India	27	8.00%
4	Gandhi Bhawan, University of Delhi	26	7.00%
5	Central Universities (BBAU, CUPB, Tripura, Assam, etc.)	22	6.00%
6	Indian Institutes & Professional Bodies (INFLIBNET, ICSSR, AICTE, etc.)	20	6.00%
7	Faculty Development & Research Centre (FDRC), Army Welfare Education Society	19	5.00%
8	MMTTC / UGC-HRDC (Various Universities)	18	5.00%
9	International Universities & Conferences	18	5.00%
10	Air Force / Defence Institutions (DRDO, Air Force Schools, DESIDOC)	17	5.00%
11	Indira Gandhi National Centre for the Arts (IGNCA)	15	4.00%
12	NCERT / RIE-NCERT (All Centres)	14	4.00%
13	Delhi Library Association (DLA)	12	3.00%
14	Gandhi Study Circle (DU Colleges)	10	3.00%
15	National Law Universities / Legal Institutions	6	2.00%
	Total	355	100.00%

Table 6 give an idea on the organizing committee of the academic engagements. It can be observed that a significant share of engagements were hosted by the University of Delhi and its affiliated colleges (18.00%), indicating strong institutional anchoring. Gandhi Bhawan, University of Delhi (7.00%), CSTT, Government of India (8.00%) and other national professional bodies (6.00%) reflect close association with academic and policy-oriented institutions. Capacity building platforms such as MMTTC/UGC-HRDC and Faculty Development & Research Centres (5.00% each) highlight a sustained emphasis on professional development. International universities and conferences (5.00%) demonstrate global academic outreach. Engagements with defense and research institutions (5.00%) indicate interdisciplinary and strategic relevance. The 'Others' category (19.00%) points to wide institutional diversity. Overall, the distribution reflects a balanced and multi-institutional dissemination strategy spanning academia, policy and society.

5 QUANTITATIVE ASSESSMENT OF ACADEMIC PERFORMANCE AND PROFESSIONAL IMPACT

Professor KP Singh has undertaken 355 academic and professional engagements, with peak activity between 2022-2024, reflecting sustained scholarly productivity and continued relevance. His leadership and recognition are evident through prestigious roles such as Chief Guest (36), Keynote Speaker (25), and Invited Speaker (18). Thematic analysis shows dominance of Library and Information Science/Knowledge Organization (29.10%), followed by Digital Transformation and ICT (19.20%), alongside contributions in research ethics, national development, Gandhian philosophy and emerging technologies, underscoring intellectual breadth. Audience distribution highlights outreach to teachers, faculty, and academicians (32.20%), mixed groups of teachers, students, and researchers (23.40%) and LIS professionals/librarians (19.00%). Geographically, engagements are primarily national (57.63%), with international (10.73%) reflecting measurable global visibility, while organizer analysis shows diversity, with University of Delhi affiliated institutions (18.00%) complemented by national bodies, professional organizations and training institutions. Collectively, these indicators demonstrate Professor Singh's high productivity, recognized leadership, thematic depth and broad academic and professional impact.

6 OVERALL FINDINGS AND DISCUSSION

The comprehensive analysis of Professor KP Singh's academic engagements reveals a sustained and multi-dimensional scholarly impact across higher education, professional development and societal outreach.

1. The analysis of 355 academic and professional engagements undertaken between 2004 and 2026 demonstrates sustained and increasing scholarly productivity in the field of Library and Information Science (LIS).
2. Year-wise distribution indicates peak academic activity in 2022 (50 engagements; 14.08%), followed by 2024 (48; 13.52%) and 2023 and 2025 (40 engagements each; 11.27%), reflecting intensified scholarly engagement in recent years.
3. Topic modeling identified distinct thematic clusters reflecting both disciplinary continuity and thematic evolution. Core LIS themes-Library Science, LIS education and Knowledge Organization-formed the dominant cluster (77 engagements; 29.10%), followed by Digital Transformation, Automation and ICT (51; 19.20%).
4. Interdisciplinary and emerging themes, including Gandhian philosophy and national values (10.20%), Indian Knowledge Systems (7.20%), Research Ethics and IPR (6.80%) and AI-related topics (3.40%), demonstrate thematic breadth and responsiveness to contemporary academic and policy priorities. These interdisciplinary linkages were objectively identified through topic modeling, which enabled detection of latent thematic convergence beyond manual classification.
5. Geographic analysis shows that the majority of engagements were conducted at the national level (204; 57.63%), complemented by international engagements (38; 10.73%), indicating strong domestic leadership alongside measurable global visibility.

6. Institutional and audience analyses reveal broad outreach and scholarly recognition, with strong anchoring within the University of Delhi system (62 engagements; 18.00%), frequent leadership roles as Chief Guest (36) and Keynote Speaker (25) and primary engagement with faculty (32.20%), mixed academic groups (23.40%) and LIS professionals (19.00%).

7 CONCLUSION

This study presents a systematic and data-driven evaluation of the academic and professional engagements of Professor KP Singh in the field of Library and Information Science (LIS), based on an analysis of 355 documented engagements conducted between 2004 and 2026. By integrating descriptive statistical techniques with topic modeling, the study provides an objective assessment of scholarly productivity, thematic orientation, and professional impact beyond conventional narrative approaches.

The application of topic modeling revealed distinct thematic clusters that reflect both disciplinary continuity and thematic evolution over time. Core LIS domains specifically Library Science, LIS education, and Knowledge Organization constituted the largest thematic share (77 engagements; 29.10%), confirming Professor Singh's sustained contribution to foundational LIS scholarship. Technology-oriented themes, including Digital Transformation, Automation, and ICT, accounted for 51 engagements (19.20%), indicating strong responsiveness to emerging information environments. Interdisciplinary and socio-cultural themes such as Gandhian philosophy and national values (27; 10.20%) and Indian Knowledge Systems (19; 7.20%) further highlight thematic variations. Emerging focus areas, including Research Ethics and IPR (18; 6.80%) and AI, machine learning, and metaverse-related topics (9; 3.40%), demonstrate alignment with contemporary academic, ethical, and policy priorities.

Quantitative indicators further underscore high academic productivity and professional recognition. Peak scholarly activity was observed in 2022 (50 engagements; 14.08%), 2024 (48; 13.52%), and 2023 and 2025 (40 each; 11.27%), reflecting sustained and intensified engagement in recent years. Geographically, most engagements were conducted at the national level (204; 57.63%), while international engagements (38; 10.73%) indicate measurable global academic outreach. Audience analysis reveals a strong emphasis on capacity building and knowledge dissemination, with teachers and faculty (132; 32.20%), mixed groups of teachers, students, and researchers (96; 23.40%), and LIS professionals and librarians (78; 19.00%) constituting the primary beneficiaries. Leadership roles such as Chief Guest (36 instances) and Keynote Speaker (25 instances) further reflect sustained scholarly recognition and institutional trust.

Overall, the findings establish that Professor KP Singh's academic contributions are characterized by high productivity, thematic depth, interdisciplinary breadth and sustained societal relevance. Methodologically, the study demonstrates the applicability of topic modeling for analysing academic engagements and scholarly outreach, offering a scalable approach for evaluating intellectual influence beyond publication centric metrics in LIS and related disciplines. From an LIS and educational perspective, the results highlight the need to strengthen LIS curricula and faculty development frameworks by integrating technology driven competencies, research ethics, and interdisciplinary knowledge systems while reinforcing foundational principles of librarianship, thereby supporting the development of a future-ready LIS workforce aligned with evolving national and global priorities.

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