

Dr. Shubhi Bansal

 [shubhibansal/home](https://github.com/shubhibansal/home) |  [shubhi1207](https://github.com/shubhi1207) |  [ORCID](https://orcid.org/) |  [Google Scholar](https://scholar.google.com/)

PROFESSIONAL SUMMARY	Highly motivated AI researcher with a focus on Natural Language Processing (NLP), Social Computing, and Multimodal Learning. Proven track record in publishing in top-tier conferences (ACL, AAAI ICWSM, ICASSP) and journals (EAAI, IEEE TCSS). Obtained a Ph.D. in Computer Science and Engineering at IIT Indore, specializing in computational social science and AI for social good, focusing on hashtag recommendation and popularity prediction. Experienced in teaching undergraduate and postgraduate courses, mentoring students, and developing industry-relevant AI applications.	
EDUCATION	Indian Institute of Technology Indore , Madhya Pradesh, India	December 2020- July 2025
	Ph.D. in Computer Science and Engineering Advisor: Dr. Nagendra Kumar CGPA: 8.95	
	Guru Gobind Singh Indraprastha University , Delhi, India	August 2016 - October 2020
	B.Tech. in Computer Science and Engineering CGPA: 8.75	
RESEARCH INTERESTS	Hashtag Recommendation Popularity Prediction Fake News Detection Sarcasm Detection NLP for Business	
TEACHING INTERESTS	AI for Business Natural Language Processing for Social Media Management Information Systems Business Analytics and Visualisation	
PROFESSIONAL EXPERIENCE	Assistant Professor School of Management Mudra Institute of Communications, Ahmedabad (MICA), India	March 2026- Present
	Assistant Professor Department of Computer Science and Engineering Bennett University, Uttar Pradesh, India	August 2025- January 2026
	Teaching under PMRF Scheme	
	NPTEL course on Natural Language Processing (noc24-cs32)	January 2024- April 2024
	NPTEL course on Systems and Usable Security (noc23-cs32)	February 2023- March 2023
	NPTEL course on Natural Language Processing (noc22-cs98)	July 2022- October 2022
	Guest Faculty and Course Co-ordinator Shri G.S. Institute of Technology and Science (SGSITS), Indore Artificial Intelligence and Machine Learning (EC65216)	November 2022- January 2023

Advanced Algorithms (IT78511)	March 2023- June 2023
Artificial Intelligence (CT20302)	August 2023- November 2023
Advanced Algorithms (IT78511)	February 2024- April 2024
Artificial Intelligence (IT38005)	August 2024- December 2024
Soft Computing (IT78512)	February 2025- April 2025

Teaching Assistant for Undergraduate Students

IIT Indore

December 2020- July 2025

Compiler Techniques(CS308)
 Compiler Techniques Lab (CS358)
 Database and Information System (CS207)
 Database and Information System Lab (CS257)

AWARDS AND ACHIEVEMENTS

Recipient of Prime Minister Research Fellowship (PMRF)	December 2021- July 2025
2nd runner up at Research Symposium, Department of CSE, IIT Indore	2022-2023
Winner at the National Symposium on Redesigning Supply Chain, Chitkara University	2022
AIR 2989 , GATE CS	2020
Geoffrey Hinton Fellowship (GHF) Hackathon - Rank 1 in Public Leaderboard	2021
Geoffrey Hinton Fellowship(GHF) Hackathon - Rank 60 in Private Leaderboard	2021
Intra - School Declamation Contest - Winner	2014
Inter - School Debate Competition - Winner	2011

TECHNICAL SKILLS

Languages: Python
 Frameworks: Keras, TensorFlow, PyTorch
 Core Competencies: Machine Learning, Deep Learning, Information Retrieval, Graph Neural Networks, Multilingual NLP, Social Media Analysis, Transformer Models, Diffusion Models, Large Language Models

CONFERENCES

1. **Shubhi Bansal**, Seerla Parimala, Nagendra Kumar, “*Retrieval Augmented Encoder-Decoder with Diffusion for Sequential Hashtag Recommendation in Disaster Events*”, International AAAI Conference on Web and Social Media (ICWSM), 2025.
2. Mohammad Zia Ur Rehman , Anukriti Bhatnagar, Omkar Kabde, **Shubhi Bansal**, Nagendra Kumar, “*ImpliHateVid: A Benchmark Dataset and Two-stage Contrastive Learning Framework for Implicit Hate Speech Detection in Videos*”, Association of Computational Linguistics (ACL), 2025.
3. Devraj Raghuvanshi, Xiyuan Gao, Zhu Li, **Shubhi Bansal**, Matt Coler, Nagendra Kumar, Shekhar Nayak, “*Intra-modal Relation and Emotional Incongruity Learning using Graph Attention Networks for Multimodal Sarcasm Detection*”, International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2025.
4. Monika Gupta, Sandhir Sharma, **Shubhi Bansal**, ”*Neuromarketing: An Emerging Domain in the Formal Education System*”, in 3rd International Conference on Intelligent Engineering and Management (ICIEM), 2022.
5. Niharika Ganji, Arnab Sinhamahapatra, **Shubhi Bansal**, Nagendra Kumar, “*CoviIS: A Real-Time Covid Help Information System Using Digital Media*, in 3rd International Conference on Data Science and Applications (ICDSA), 2022.
6. Nagendra Kumar, Jung-jae Kim, **Shubhi Bansal**, “*Semantic Text Matching using Transfer Learning and Deep Learning*, in 18th International Conference on Machine Learning and Data Mining (MLDM), 2021.
7. Rahul Johari, **Shubhi Bansal**, Kanika Gupta, “*Routing in IoT using MQTT Protocol*”, in 12th International Conference on Computational Intelligence and Communication Networks (CICN), IEEE, 2020.

1. **Shubhi Bansal**, Jahnvi Sunchu, Shahid Shafi Dar, Nagendra Kumar, “*Transformer-aware sequence-to-sequence network for personalised tag recommendation in software information sites*”, Information and Software Technology (INFOSOF), 2026. [IF: 4.3, h-index: 137]
2. Xiyuan Gao, **Shubhi Bansal**, Kushaan Gowda, Zhu Li, Shekhar Nayak, Nagendra Kumar, “*AMuSeD: An Attentive Deep Neural Network for Multimodal Sarcasm Detection Incorporating Bi-modal Data Augmentation*”, IEEE Transactions on Affective Computing (TAC), 2025 [IF: 9.6, h-index: 91]
3. Lata Pangtey, Mohammad Zia Ur Rehman, Prasad Chaudhari, **Shubhi Bansal**, Nagendra Kumar, “*Emotion-aware Dual Cross-Attentive Neural Network with Label Fusion for Stance Detection in Misinformative Social Media Content*”, Engineering Applications of Artificial Intelligence (EAAI), 2025. [IF: 8.0, h-index: 149]
4. Mohammad Zia Ur Rehman, Devraj Raghuvanshi, Umang Jain, **Shubhi Bansal**, Nagendra Kumar, “*A Multimodal-multitask Framework with Cross-modal Relation and Hierarchical Interactive Attention for Semantic Comprehension*”, Information Fusion (INFFUS), 2025. [IF: 15.5, h-index: 179]
5. Chandravardhan Singh Raghaw, Jasmer Singh Sanjotra, Mohammad Zia Ur Rehman, **Shubhi Bansal**, Shahid Shafi Dar, Nagendra Kumar, “*T-MPEDNet: Unveiling the Synergy of Transformer-aware Multiscale Progressive Encoder-Decoder Network with Feature Recalibration for Tumor and Liver Segmentation*”, Biomedical Signal Processing and Control (BSPC), 2025. [IF: 4.9, h-index: 125]
6. Shahid Shafi Dar, Mihir Kanchan Karandikar, Mohammad Zia Ur Rehman, **Shubhi Bansal**, Nagendra Kumar, “*A Contrastive Topic-aware Attentive Framework with Label Encodings for Post-disaster Resource Classification*”, Knowledge-Based Systems (KBS), 2024. [IF: 7.6, h-index: 188]
7. Chandravardhan Singh Raghaw, Arnav Sharma, **Shubhi Bansal**, Mohammad Zia Ur Rehman, Nagendra Kumar, “*CoTCoNet: An Optimised Coupled Transformer-Convolutional Network with an Adaptive Graph Reconstruction for Leukemia Detection*”, Computers in Biology and Medicine (CIBM), 2024. [IF: 6.3, h-index: 142]
8. **Shubhi Bansal**, Kushaan Gowda, Mohammad Zia Ur Rehman, Chandravardhan Singh Raghaw, Nagendra Kumar, “*A Hybrid Filtering for Micro-video Hashtag Recommendation using Graph Neural Network*”, Engineering Applications of Artificial Intelligence (EAAI), 2024. [IF: 8.0, h-index: 149]
9. **Shubhi Bansal**, Mohit Kumar, Chandravardhan Singh Raghaw, Nagendra Kumar, “*Sentiment and Hashtag-aware Attentive Deep Neural Network for Multimodal Post Popularity Prediction*”, Neural Computing and Applications (NCAA), 2024. [IF: 5.6, h-index: 146]
10. Prasad Chaudhari, Pankaj Nandeshwar, **Shubhi Bansal**, Nagendra Kumar, MahaEmoSen: “*Towards Emotion-aware Multimodal Marathi Sentiment Analysis*, ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), 2023. [IF: 2, h-index: 31]
11. Purnadip Chakrabarti, Eish Malvi, **Shubhi Bansal**, Nagendra Kumar, “*Hashtag Recommendation for Enhancing the Popularity of Social Media Posts*”, Social Network Analysis and Mining (SNAM), 2023. [IF: 2.3, h-index: 54]
12. **Shubhi Bansal**, Kushaan Gowda, Nagendra Kumar, “*Multilingual Personalized Hashtag Recommendation for Low-Resource Indic Languages using Graph-based Deep Neural Network*”, Expert Systems with Applications (ESWA), 2023. [IF: 7.5, h-index: 290]
13. **Shubhi Bansal**, Kushaan Gowda, Nagendra Kumar, “*A Hybrid Deep Neural Network for Multimodal Personalized Hashtag Recommendation*”, IEEE Transactions on Computational Social Systems (TCSS), 2022. [IF: 4.9, h-index: 68]

	14. Shubhi Bansal, Rahul Johari, Sapna Chaudhary, Prachi Garg, Riya Bhatia, Kalpana Gupta, “<i>e-PRAN: Enhanced Prophet Routing Algorithm in Delay Tolerant Networks</i>”, in Journal of Information and Optimization Sciences, 2020. 15. Monika Gupta, Shubhi Bansal, <i>Covid-19 Disruption of Middle-Class Monthly Household Income and Budget</i>, International Journal of Economics and Financial Issues, 2020. 16. Nitesh Kumar Gaurav, Rahul Johari, Samridhi Seth, Sapna Chaudhary, Riya Bhatia, Shubhi Bansal, Kalpana Gupta, “TLC Algorithm in IoT Network for Visually Challenged Persons”, Ambient Communications and Computer Systems, Springer, 2020.
BOOK CHAPTERS	Shubhi Bansal , Monika Gupta, “Towards Using Artificial Intelligence in Neuromarketing”, in Promoting Consumer Engagement through Emotional Branding and Sensory Marketing, IGI Global, 2023.
CO-AUTHORED BOOK	Monika Gupta, Priya Jindal, Shubhi Bansal , “Promoting Consumer Engagement Through Emotional Branding and Sensory Marketing”, IGI Global, 2023.
PATENT	1. Monika Gupta, Shubhi Bansal, Prateek Srivastava, Shefali Saluja, Kanika, and Swayam Prakash, “<i>Portable Hand Drier Cum Sanitiser</i>”. Indian Registered Design No. 366871-001. Issued: December 23, 2022. 2. Monika Gupta, Shubhi Bansal, Prateek Srivastava, “<i>All-in-one Water Bottle</i>”. Indian Registered Design No. 360714-001, Issued: March 15, 2022.
MENTORING EXPERIENCE	B.Tech (CSE), IIT Indore • Simple Malik, Shiva Shukla, Hemant Tharad, Suryapogu Raj, Boppani Mahesh, Mamillapalli Srikrishna, Kandula Kanth 2022 • Kushaan Gowda, Purnadip Chakrabarti, Eish Malvi, Vaibhav Mitra, Mohit Kumar, Likhitha Khyatam, Nandeshwar Pankaj Siddharth 2023 • Nishit Sushil Singh, Nishchay Shroff, Anushka Suresh Nile, Rohit Bankar 2024 • Seerla Parimala, Musal Reddy 2025 B.Tech (EE), IIT Indore • Jahnavi Sunchu, Chirag Kothari, Anupama Sureshbabu 2024 M.S. (CSE), IIT Indore • Prasad Chaudhari 2024 • Lata Pangtey 2025 Miscellaneous • Niharika Ganji, B. Tech (Mechanical), IIT Indore 2022 • Devraj Raghuvanshi, B. Tech (IT), SGSITS Indore 2024-2025
PROFESSIONAL SERVICE	Reviewer Information Processing and Management, Elsevier Engineering Applications of Artificial Intelligence, Elsevier Neural Computing and Applications, Springer Social Network Analysis and Mining, Springer IEEE Transactions on Computational Social Systems Neurocomputing Applied Soft Computing

Multimedia Systems, Springer

Member of the Organizing Committee

PMRF Symposium, IIT Indore

2024

Research Symposium, Department of Computer Science and Engineering, IIT Indore

2024

RESEARCH
INTERNSHIPS

Indian Institute of Technology Indore

October, 2020 - Dec, 2020

Built a Deep Convolutional Neural Network model capable of mapping the images of fruits to the correct classes.

Indian Institute of Technology Delhi

February, 2020 - March, 2020

Worked with Dr. Harish Chaudhry's team to improve the reach of online programs, and optimize the performance of websites using **Search Engine Optimization (SEO)** techniques.

IEEE Summer School on Industrial Internet of Things (IIOT)

June, 2019

Designed an **Intelligent Helmet** for bicycle riders using sensors and Arduino programming to reduce the risk of accident on road.