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Doctoral Research Overview

PhD Title — The PhD titled **Unveiling the Review Spam: From Dataset Labeling to Group Spammer Detection and Review Aspect Analysis** investigates the pervasive problem of fake reviews that manipulate user perception and product credibility across e-commerce and social platforms. These deceptive reviews can mislead consumers and damage the online reputation of businesses. Existing detection models often lack the robustness to uncover complex and coordinated spam activities. To bridge this gap, the doctoral research presents an integrated framework comprising multiple novel contributions.

SUH-AIFRD — **Semi-supervised and Unsupervised Hybrid Approach for Individual Fake Reviewer Detection (SUH-AIFRD)**: This hybrid model leverages a combination of content-based, behavioral, temporal, and relational features to improve the detection accuracy of individual fake reviewers, even in scenarios with limited labeled data.

NRWalk2Vec — **Fake Reviewers Groups Detection Model**: By constructing a heterogeneous information network of users, reviews, timestamps, and ratings, this model employs NRWalk2Vec embeddings and Gaussian fuzzy C-Means clustering with entropy-driven weights to detect coordinated spammer groups effectively.

SA-ASBA — **Aspect-Based Sentiment Analysis (SA-BERT-XGBoost)**: This ABSA model incorporates transformer-based attention, dynamic word embeddings, and XGBoost classification for precise sentiment analysis across multiple product aspects.

ConvRoBERTa — **ConvRoBERTa Model for Fake Review Detection**: Combines scaled dot-product attention with sequential (textual) and non-sequential (behavioral and sentiment polarity) signals. It demonstrates strong performance on the Yelp dataset compared to traditional single-representation methods.

Education

2018 – 2023 — **Ph.D.** in **Computer Science and Engineering** from Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India.
[Awarded: 2023]

2008 – 2010 — **M.Tech.** in **Computer Science and Engineering** from Maulana Azad National Institute of Technology (MANIT), Bhopal, India.
[CGPA: 7.89]

2003 – 2007 — **B.E.** in **Information Technology** from Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, India.
[Percentage: 74.66%]

2001 – 2002 — **Higher Secondary** (12^{th}) in **Science (PCM)** from Board of Secondary Education, Madhya Pradesh, Bhopal, India.
[Percentage: 67.77%]

1999 – 2000 — **Secondary** (10^{th}) from Board of Secondary Education, Madhya Pradesh, Bhopal, India.
[Percentage: 63.80%]

Professional Experience

2023 – Present — **Assistant Professor**, School of Computer Science and Engineering, Bennett University, Greater Noida, India.

2016 – 2018 — **System IT Engineer**, Shivam Software Limited, Bhopal, Madhya Pradesh, India.

2010 – 2016 — **Assistant Professor**, Computer Science and Engineering Department, Technocrats Institute of Technology and Science, Bhopal, Madhya Pradesh, India.

2007 – 2008 — **Lecturer**, Computer Science and Engineering Department, Rajiv Gandhi Prodyogiki Mahavidhyalaya, Bhopal, Madhya Pradesh, India.

Research Interests

AI/ML — Artificial Intelligence and Machine Learning (Core): Focus on deep learning models, ensemble learning, hybrid architectures, and intelligent decision-making systems.

NLP — Natural Language Processing (Primary): Focus on fake review detection, sentiment analysis, misinformation detection, and transformer-based models (e.g., BERT, SentiBERT) for opinion spam analysis.

CV — Computer Vision (Applied): Application of deep learning techniques in image analysis, including medical imaging (e.g., diabetic retinopathy, breast cancer), thermal imaging, and intelligent surveillance systems.

Blockchain — Blockchain and Privacy (Secondary): Research on privacy-preserving machine learning, secure data systems using blockchain and IPFS, and differential privacy frameworks for healthcare and social platforms.

Data Science — Data Science (Supportive): Emphasis on feature engineering, statistical analysis, embedding techniques (e.g., Walk2Vec), and comprehensive preprocessing for model development and evaluation.

Teaching Interests

Operating Systems — Teaching core OS concepts such as process management, memory management, scheduling algorithms, and concurrency, with practical lab sessions on Unix/Linux environments.

AL/ML — Instruction on foundational AI concepts including search algorithms, knowledge representation, inference, and an introduction to machine learning and intelligent agents.

NLP — Teaching core Natural Language Processing (NLP) techniques such as text preprocessing, language modeling, syntactic and semantic analysis, named entity recognition, and sentiment analysis, with hands-on experience using Python libraries like NLTK, spaCy, and Hugging Face Transformers.

Data Structures — Comprehensive teaching of fundamental and advanced data structures, emphasizing real-world applications, algorithmic efficiency, and hands-on implementation in C/C++ and Python.

Research Publications

Transaction Journal Articles

1. **Arvind Mewada** and Rupesh Kumar Dewang, "Convroberta: Detecting fake reviews by fusing sequential and weighted non-sequential features," *IEEE Transactions on Artificial Intelligence*, 2025, Accepted on July 26, 2025.

SCI-Indexed Journal Articles

1. Shahnawaz Ahmad, Mohd Ansari, **Arvind Mewada**, Prabhishek Singh, Manoj Diwakar, Salman Akhtar, Basu Dev Shivahare, et al., "Mpfan: A novel multiscale network for brain tumor mri classification," *The Open Bioinformatics Journal*, vol. 18, no. 1, 2025.

2. Mohd Aquib Ansari, **Arvind Mewada**, Ambrish Kumar, Ruchi Jayaswal, Amrendra Singh Yadav, Lalit Kumar, and Deepika Bansal, "Fine-grained temporal–spatial cues for theft recognition in surveillance videos," *Scientific Reports*, 2025.

3. Ruchi Jayaswal, Mohd Aquib Ansari, **Arvind Mewada**, Preksha Pareek, and Shahnawaz Ahmad, "An in-depth exploration of structural pose estimation strategies and datasets," *Discover Computing*, vol. 28, no. 1, p. 222, 2025.

4. Rupesh Kumar Dewang, Mahendra Pratap Yadav, Surbhit Awasthi, Om Raj, **Arvind Mewada**, and Kamlakant Laxman Bawankule, "Data secure application: An application that allows developers to store user data securely using Blockchain and IPFS," *Multimedia Tools and Applications*, vol. 83, no. 15, pp. 45 491–45 517, 2024. DOI: 10.1007/s11042-023-17204-w.

5. **Arvind Mewada** and Rupesh Kumar Dewang, "CIPF: Identifying fake profiles on social media using a CNN-based communal influence propagation framework," *Multimedia Tools and Applications*, vol. 83, no. 10, pp. 29 419–29 454, 2024. DOI: 10.1007/s11042-023-16685-z.

6. **Arvind Mewada** and Rupesh Kumar Dewang, "NRWalk2Vec-HIN: spammer group detection based on heterogeneous information network embedding over social media," *The Journal of Supercomputing*, vol. 80, no. 2, pp. 1818–1851, 2024. DOI: 10.1007/s11227-023-05537-0.

7. **Arvind Mewada** and Rupesh Kumar Dewang, "SUH-AIFRD: A self-training-based hybrid approach for individual fake reviewer detection," *Multimedia Tools and Applications*, vol. 83, no. 26, pp. 67 643–67 671, 2024. DOI: 10.1007/s11042-024-16317-8.

8. **Arvind Mewada** and Rupesh Kumar Dewang, "A comprehensive survey of various methods in opinion spam detection," *Multimedia Tools and Applications*, vol. 82, no. 9, pp. 13 199–13 239, 2023. DOI: 10.1007/s11042-022-13702-5.

9. **Arvind Mewada** and Rupesh Kumar Dewang, "SA-ASBA: a hybrid model for aspect-based sentiment analysis using synthetic attention in pre-trained language BERT model with extreme gradient boosting," *The Journal of Supercomputing*, vol. 79, no. 5, pp. 5516–5551, 2023. DOI: 10.1007/s11227-022-04881-x.

10. **Arvind Mewada** and Rupesh Kumar Dewang, "Research on false review detection methods: A state-of-the-art review," *Journal of King Saud University-Computer and Information Sciences*, vol. 34, no. 9, pp. 7530–7546, 2022. DOI: 10.1016/j.jksuci.2021.07.021.

Scopus-Indexed Journal Articles

1. Shahnawaz Ahmad, Mohd Aquib Ansari, **Arvind Mewada**, and Mohd Arif, "Advancing reliability and safety in iot: Engineering cyber-physical human systems for the future," *Life Cycle Reliability and Safety Engineering*, vol. —, pp. 1–15, 2025.

2. Mohd. Aquib Ansari, Shahnawaz Ahmad, and **Arvind Mewada**, "Mitigating risk in medical ai: Balancing x-ray datasets for reliable detection," *Life Cycle Reliability and Safety Engineering*, vol. 1, no. 1, pp. 1–11, 2025, ISSN: 2520-1360. DOI: 10.1007/s41872-025-00316-7.

3. Rupesh Kumar Dewang, Anil Kumar Singh, and **Arvind Mewada**, "Empowering e-commerce integrity: Readability-driven detection of group spammers," *Life Cycle Reliability and Safety Engineering*, pp. 1–19, 2025.

4. Ruchi Jayaswal, Mohd. Aquib Ansari, and **Arvind Mewada**, "Smart food choices: The role of reliable and safe ai in nutrition recommender systems," *Life Cycle Reliability and Safety Engineering*, vol. 1, no. 1, pp. 1–11, 2025, ISSN: 2520-1360. DOI: 10.1007/s41872-025-00315-8.

5. Ruchi Jayaswal, Mohd. Aquib Ansari, **Arvind Mewada**, Shahnawaz Ahmad, and Anchal Pathak, "Catch before they fall: A pose-guided attention framework for indoor safety," *Iran Journal of Computer Science*, 2025, ISSN: 2520-8446. DOI: 10.1007/s42044-025-00313-0.

6. **Arvind Mewada**, Sushil Kumar Maurya, and Mohd. Aquib Ansari, "Seeing Beyond: Advanced Image and Thermal Analysis for Early Detection of Diabetic Retinopathy and Diabetes," *Biomedical and Pharmacology Journal*, vol. 18, no. March Special Edition, pp. 191–202, 2025. DOI: 10.13005/bpj/3081.

7. Goldy Saini, Rakesh Kumar, Lokesh Malviya, **Arvind Mewada**, and Mohd Aquib Ansari, "Stress detection using eeg signals: Comparative analysis of machine learning models and feature extraction," *Life Cycle Reliability and Safety Engineering*, pp. 1–18, 2025.

8. Manish Tiwari, Nagendra Singh, **Arvind Mewada**, and Mohd Aquib Ansari, "Machine learning empowered breast cancer diagnosis: Insights from coimbra dataset analysis," *Recent Advances in Computer Science and Communications*, vol. 18, no. 3, e26662558297605, 2025. DOI: 10.2174/0126662558297605240926055723.

9. Bhaswati Barman, Rupesh Kumar Dewang, and **Arvind Mewada**, "Facial recognition using grey wolf optimization," *Materials Today: Proceedings*, vol. 58, pp. 273–285, 2022. DOI: 10.1016/j.matpr.2022.03.015.

Refereed Journal Publications (Non-SCI / Non-Scopus)

1. Harsh Pratap Singh, **Arvind Mewada**, Lokendra Singh Songare, Pinky Rane, and Jitendra Sheetlani, "A deep learning framework for early detection of potato plant diseases," *International Journal on Recent and Innovation Trends in Computing and Communication*, vol. 11, no. 9, pp. 1466–1472, 2023, ISSN: 2321-8169. DOI: 10.17762/ijritcc.v11i9.9127.

2. Manish Tiwari, **Arvind Mewada**, and Nagendra Singh, "Diagnosis of liver disorders using machine learning classifiers like tree, meta, rule, and lazy," *Design Engineering*, pp. 8133–8150, 2021, ISSN: 0011-9342.

3. Anirudh Dular, R. K. Nigam, and **Arvind Mewada**, "Energy-aware routing protocols in manet: A review," *International Journal for Technological Research in Engineering*, vol. 2, no. 2, pp. 144–150, 2014, ISSN: 2347-4718.

4. Ashutosh Gupta and **Arvind Mewada**, "Disputant classification from news articles using text mining," *International Journal of Innovative Research in Technology and Science*, vol. 2, no. 5, pp. 61–65, 2014, ISSN: 2321-1156.

5. Nilima Motghare and **Arvind Mewada**, "Adapting ecg data stream mining for health care applications," *International Journal of Scientific and Engineering Research*, vol. 5, no. 9, pp. 455–459, 2014, ISSN: 2229-5518.

6. Nilima Motghare and **Arvind Mewada**, "Review paper on adapting data stream mining concept drift using ensemble classifier approach," *IOSR Journal of Computer Engineering (IOSR-JCE)*, vol. 16, no. 5, pp. 120–123, 2014, ISSN: 2278-0661. DOI: 10.9790/0661-1654120123.

7. **Arvind Mewada**, Prafful Gedam, Shamaila Khan, and M. Udayapal Reddy, "Network intrusion detection using multiclass support vector machines," *International Journal of Computer and Communication Technology*, vol. 1, no. 4, pp. 262–265, 2010, ISSN: 2231-0371. DOI: 10.47893/IJCCT.2010.1054.

8. **Arvind Mewada** and Sanyam Shukla, "KMSVM Model for Network Intrusion Detection," *International Journal of Computational Intelligence and Information Security*, vol. 1, no. 5, pp. 99–105, 2010, ISSN: 1837-7823.

9. **Arvind Mewada** and Sanyam Shukla, "Network anomaly detection via clustering and custom kernel in msvm," *International Journal of Advanced Computer Science and Applications*, vol. 1, no. 1, pp. 30–33, 2010, ISSN: 2156-5570.

Conference Proceedings

1. Shahnawaz Ahmad, Mohd Arif, Mohd Aquib Ansari, **Arvind Mewada**, and Raju, "Towards trustworthy and scalable iot: A blockchain-federated learning approach based on gsr-c2n," in *2025 IEEE Madhya Pradesh Section Conference (MPCON)*, 2025, pp. 578–582. DOI: 10.1109/MPCON66082.2025.11256738.

2. Shahnawaz Ahmad, Mujaffar Husain, Mohd. Aquib Ansari, Mohd Arif, and **Arvind Mewada**, "A graph attention-driven boosted deep learning framework for early parkinson's detection from hand-drawing biomarkers," in *2025 IEEE Madhya Pradesh Section Conference (MPCON)*, 2025, pp. 84–88. DOI: 10.1109/MPCON66082.2025.11256621.

3. Mohd Aquib Ansari, Shahnawaz Ahmad, **Arvind Mewada**, and Sushil Kumar Maurya, "Posturalnet, an advanced architecture to detect shoplifting at megastores," in *2025 IEEE 14th International Conference on Communication Systems and Network Technologies (CSNT)*, IEEE, Bhopal, India, Mar. 2025, pp. 863–867. DOI: 10.1109/CSNT64827.2025.10968916.

4. Mohd. Aquib Ansari, Sachin Upadhyay, **Arvind Mewada**, Shahnawaz Ahmad, and Lekhraj, "Mpfan: Multi-scale parallel feature aggregation network for plant disease diagnosis," in *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, 2025, pp. 1478–1483. DOI: 10.1109/ICoEIT63558.2025.11211676.

5. **Arvind Mewada**, Mohd. Aquib Ansari, and Sushil Kumar Maurya, "From Misinformation to Truth: Fake News Detection with Transformer-Based Models," in *2025 IEEE 14th International Conference on Communication Systems and Network Technologies (CSNT)*, IEEE, Bhopal, India, Mar. 2025, pp. 1321–1326. DOI: 10.1109/CSNT64827.2025.10967607.

6. **Arvind Mewada** and Sushil Kumar Maurya, "Spammer Groups Detection in Online Reviews: A Novel Approach Using FP-Growth and Behavioral Features," in *Advanced Network Technologies and Intelligent Computing*, ser. Communications in Computer and Information Science, vol. 2333, Cham: Springer, 2025, pp. 360–371. DOI: 10.1007/978-3-031-83783-8_21.

7. **Arvind Mewada**, Sushil Kumar Maurya, and Mohd Aquib Ansari, "Comparative study of artificial intelligence approaches in deceptive opinion detection," in *2025 2nd International Conference on Computational Intelligence, Communication Technology and Networking (CICTN)*, IEEE, Ghaziabad, India, Feb. 2025, pp. 999–1004. DOI: 10.1109/CICTN64563.2025.10932501.

8. **Arvind Mewada**, Sushil Kumar Maurya, Mohd. Aquib Ansari, Om Prakash Sharma, Suman Avdhesh Yadav, and Shahnawaz Ahmad, "Deceptive opinion detection using stacking-based deep ensemble learning," in *2025 3rd International Conference on Disruptive Technologies (ICDT)*, Greater Noida, India: IEEE, Mar. 2025, pp. 230–235. DOI: 10.1109/ICDT63985.2025.10986298.

9. **Arvind Mewada**, Rohit Sachan, Mohd. Aquib Ansari, and Shahnawaz Ahmad, "Enhanced image steganography: A secure approach for text-in-image and image-in-image encryption," in *2025 IEEE Madhya Pradesh Section Conference (MPCON)*, 2025, pp. 531–536. DOI: 10.1109/MPCON66082.2025.11256648.

10. **Arvind Mewada**, Amrendra Singh Yadav, Harsh Pratap Singh, Paridhi Nigam, Mohd. Aquib Ansari, and Shahnawaz Ahmad, "Smart censorship: Real-time obscene content detection using skin pixel aggregation and humanoid shape recognition," in *2025 IEEE Madhya Pradesh Section Conference (MPCON)*, 2025, pp. 743–747. DOI: 10.1109/MPCON66082.2025.11256623.

11. Kedar Nath Singh, Balwant Singh Raghuwanshi, Himanshu Shroti, Pooja Dubey, and **Arvind Mewada**, "Comparative analysis of neural network-based models for sentiment analysis on twitter data," in *2025 3rd International Conference on Communication, Security, and Artificial Intelligence (ICCSAI)*, IEEE, vol. 3, India, 2025, pp. 89–93. DOI: 10.1109/ICCSAI64074.2025.11063787.

12. Subiya Zaidi, Kapil Juneja, and **Arvind Mewada**, "Mind the gap: Data challenges in ai-driven alzheimer's disease diagnosis," in *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, 2025, pp. 1182–1186. DOI: 10.1109/ICoEIT63558.2025.11211792.

13. Adeeba Bakhtiyar, Mohd Aquib Ansari, **Arvind Mewada**, and Dushuyant Kumar Singh, "From Pixels to People: Deep Learning Breakthroughs in Human Detection," in *Proceedings of the 2024 IEEE 16th In-*

ternational Conference on Computational Intelligence and Communication Networks (CICN), IEEE, 2024, pp. 326–331. DOI: 10.1109/CICN.2024.00060.

14. Sandeep Rai, **Arvind Mewada**, Md. Aquib Ansari, and Dinesh Kumar, "Optimizing wireless sensor networks: Dynamic load balancing strategy with aomdv routing," in *2024 3rd International Conference on Power Electronics and IoT Applications in Renewable Energy and its Control (PARC)*, IEEE, GLA University, Mathura, India, 2024, pp. 350–355. DOI: 10.1109/PARC59193.2024.10486598.

15. **Arvind Mewada**, Rupesh Kumar Dewang, Paritosh Goldar, and Sushil Kumar Maurya, "SentiBERT: A Novel Approach for Fake Review Detection Incorporating Sentiment Features with Contextual Features," in *Proceedings of the Fifteenth International Conference on Contemporary Computing (IC3-2023)*, Noida, India: ACM, 2023, pp. 230–235. DOI: 10.1145/3607947.3607991.

16. Rupesh Kumar Dewang, Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, and **Arvind Mewada**, "AutIS: Artificial Intelligent Based Automated Interviewing System," in *Hybrid Intelligent Systems*, ser. Lecture Notes in Networks and Systems, vol. 420, Cham: Springer, 2022, pp. 305–320, ISBN: 978-3-030-96304-0. DOI: 10.1007/978-3-030-96305-7_29.

17. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, and **Arvind Mewada**, "Biased online media analysis using machine learning," in *Proceedings of International Conference on Computational Intelligence: Algorithms for Intelligent Systems*, ser. Lecture Notes in Networks and Systems, vol. 420, Bhopal, India: Springer Nature Singapore, 2022, pp. 99–108, ISBN: 978-981-19-2125-4. DOI: 10.1007/978-981-19-2126-1_8.

18. Saloni Juneja, Shubham Goyallal, Sonali Agarwal, Saransh Agrawal, Rohit Kumar, Rupesh Dewang, and **Arvind Mewada**, "Spam review detection using okapi relevance method for negative reviews," in *Data, Engineering and Applications: Select Proceedings of IDEA 2021*, ser. Lecture Notes in Electrical Engineering, vol. 907, Bhopal, India: Springer Nature Singapore, 2022, pp. 493–504, ISBN: 978-981-19-4687-5. DOI: 10.1007/978-981-19-4687-5_38.

19. Rupesh Kumar Dewang, Aditya Raven, and **Arvind Mewada**, "A machine learning-based privacy preserving model for covid-19 patient using differential privacy," in *2021 19th OITS International Conference on Information Technology (OCIT)*, IEEE, Silicon Institute of Technology, Bhubaneswar, India, 2021, pp. 90–95, ISBN: 978-1-6654-1664-1. DOI: 10.1109/OCIT53463.2021.00028.

20. Swati Jain, Suraj Prakash Narayan, Nalini Meena, Rupesh Kumar Dewang, Utkarsh Bhartiya, Varun Kumar, and **Arvind Mewada**, "Event detection through lexical chain based semantic similarity algorithm," in *IOP Conference Series: Materials Science and Engineering*, vol. 1166, Coimbatore, Tamil Nadu, India: IOP Publishing, 2021, p. 012 016. DOI: 10.1088/1757-899X/1166/1/012016.

21. **Arvind Mewada**, R. K. Pateriya, Mansi Gyanchandani, and Sanyam Shukla, "Intrusion detection using support vector machine: A review," in *Proceedings of the National Conference on Recent Trends and Challenges in Internet Technology (RTCIT-2010)*, MANIT Bhopal, India, 2010.

Books

1. Mohd. Aquib Ansari, **Arvind Mewada**, and Rahat Naz, *Pixels of Discovery: The Science of Image Retrieval*, English. LAP Lambert Academic Publishing, Feb. 2025, ISBN: 978-620-8-42645-3.

2. **Arvind Mewada**, Nagendra Singh, Mohd. Aquib Ansari, and Amrendra Singh Yadav, *Applications of Blockchain Technology*, English. Routledge, 2025, ISBN: 9781032899862.

3. Ashish Kumar Singh, **Arvind Mewada**, and Avjeet Singh, *Echoes of Data*, English. LAP Lambert Academic Publishing, Mar. 2025, p. 68, ISBN: 978-6208433727.

4. Nagendra Singh, Sitendra Tamrakar, **Arvind Mewada**, and Sanjeev Kumar Gupta, *Artificial Intelligence Techniques in Power Systems Operations and Analysis*, 1st. Boca Raton, FL: Auerbach Publications, 2023, ISBN: 9781032294865. DOI: 10.1201/9781003301820.

Book Chapters

1. Shahnawaz Ahmad, Mohd Aquib Ansari, **Arvind Mewada**, Raju Raju, and Sachin Upadhyay, "Biocrypt: A bioinformatics-driven approach to secure cloud computing," in *AI-Driven Security and Intelligence in Cloud and Internet of Things Systems*, USA: IGI Global, 2026, pp. 1–32. DOI: 10.4018/979-8-3373-7503-8.ch010.

2. Lalit Kumar, Neelendra Badal, Mohd. Aquib Ansari, **Arvind Mewada**, and Dushyant Kumar Singh, "Navigating truth and fiction: Generative ai's role in modern media literacy," in *Modern Media Literacy: Generative AI, Social Media, and the News*, USA: IGI Global, 2026, pp. 1–32. DOI: 10.4018/979-8-3373-0872-2.ch010.

3. **Arvind Mewada**, Mohd Aquib Ansari, Shahnawaz Ahmad, Sushil Kumar Maurya, and Lalit Kumar, "Idsci: An advanced machine learning-based intrusion detection system for cloud infrastructure," in *Safe Data-Driven Control for Cyber-Physical Systems*, USA: IGI Global, 2026, pp. 1–24. DOI: 10.4018/979-8-3373-1832-5.ch009.

4. Mohd Nazim, Shahnawaz Ahmad, Mohd Aquib Ansari, and **Arvind Mewada**, "Using large language models to software requirements selection for scalable, explainable, and reliable results," in *Green Software Engineering for Business Project Management*, USA: IGI Global, 2026, pp. 1–36. DOI: 10.4018/979-8-3373-4652-6.ch013.

5. Mohd. Aquib Ansari, Khalid Anwar, **Arvind Mewada**, and Aasim Zafar, "Recent trends in ai-driven human detection tactics," in *Advancements in Artificial Intelligence and Machine Learning*, Bentham Science Publishers, 2025, pp. 82–97, ISBN: 978-981-5322-59-0. DOI: 10.2174/9789815322583125010007.

6. Mohd. Aquib Ansari, **Arvind Mewada**, Shahnawaz Ahmad, Lalit Kumar, Sushil Maurya, Rahat Naz, and Lokesh Malviya, "Decoding human activities: Algorithms, frameworks, and challenges in recognition systems," in *Neural Network Advancements in the Age of AI*, Scopus, Accepted, IGI Global, 2025. DOI: 10.4018/979-8-3373-0735-0.

7. Asad Khan, Mohd. Aquib Ansari, **Arvind Mewada**, Greetta Pinheiro, and Amrendra Singh Yadav, "Harnessing blockchain for biotechnology: Current applications, challenges, and future opportunities," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

8. Vishal Kumar, Sushil Kumar, **Arvind Mewada**, and Saaema Akhtar, "Understanding blockchain technology adoption in human resource management: A technology acceptance model (tam) approach," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

9. **Arvind Mewada**, Mohd. Aquib Ansari, Niharika Kesari, Nagendra Singh, and Amrendra Singh Yadav, "International payments using blockchain: A comprehensive analysis of efficiency, security, and feasibility," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

10. **Arvind Mewada**, Maninder Singh, Harsh Pratap Singh, and Nagendra Singh, "Voting ensemble-based machine learning models for early detection of power system faults," in *Power System Management: Advances and Applications*, CRC Press, 2025, pp. 192–210.

11. Sumit Kumar Sharma, Bhawna, **Arvind Mewada**, and Mohd. Aquib Ansari, "Planting the seeds of reform: The effect of blockchain on seed management," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

12. Kedar Nath Singh, Arvind Kumar Upadhyay, and **Arvind Mewada**, "Blockchain innovation in iot-based healthcare: Issues and future opportunities," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

13. Nagendra Singh, **Arvind Mewada**, Rachamalla Sridhar, and Vandana Sondhiya, "Communication technologies for industry 5.0," in *Industry 5.0: Key Technologies and Drivers*, Indranil Sarkar, Abhishek Hazra, and Poonam Maurya, Eds., Cham: Springer Nature Switzerland, 2025, pp. 29–48, ISBN: 978-3-031-87837-4. DOI: 10.1007/978-3-031-87837-4_2.

14. Reetu Singh, Greetta Pinheiro, Niharika Keshari, **Arvind Mewada**, and Mohd. Aquib Ansari, "Towards a unified framework for blockchain-iot integration: Architectural insights and research challenges," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

15. Richa Verma, Utkarsh Kumar Verma, Kalpana Rawat, Richa Srivastava, **Arvind Mewada**, and Nagendra Singh, "Blockchain for social impact: Shaping future management practices," in *Applications of Blockchain Technology*, CRC Press, 2025, TBD, ISBN: 9781032899862.

16. Akshay Jadhav, Devashish Dhaulakhandi, Shishir Kumar Shandilya, Lokesh Malviya, and **Arvind Mewada**, "Data transformation: A preprocessing stage in machine learning regression problems," in *Artificial Intelligence Techniques in Power Systems Operations and Analysis*, Auerbach Publications, 2023, pp. 183–194, ISBN: 9781032294865. DOI: 10.1201/9781003301820-10.

17. Dasangam Venkat Nikhil, Rupesh Kumar Dewang, Buvaneish Sundar, Ayush Agrawal, Ananta Narayan Shrestha, Akash Tiwari, and **Arvind Mewada**, "Predicting native language with machine learning: An automated approach," in *Artificial Intelligence Techniques in Power Systems Operations and Analysis*, Auerbach Publications, 2023, pp. 195–206, ISBN: 9781032294865. DOI: 10.1201/9781003301820.

Patents

2024 Indian Design Patent: Arvind Mewada, Aquib Ansari, Sushil Kumar Maurya, Satyam Omar, *"AI-Based Goggle for Face Identification,"* Design No. 413778-001, Granted on 17/04/2024.

2025 Indian Design Patent: Sushil Kumar Maurya, Arvind Mewada, Brajesh Kumar Umrao, Ravi Prakash, Tribhuvan Singh, *"AI-Based Consumer Behavior Prediction Device,"* Design No. 413778-002, Granted on 14/05/2025.

Indian Design Patent: Rupesh Kumar Dewang, Ranjit Singh, Arvind Mewada, *"Machine Learning-Based Stress Detection Device,"* Design No. 451255-001, Granted on 12/03/2025.

Faculty Development Program (FDP) Attended

1. **AICTE Training and Learning (ATAL) Online Elementary FDP** on "**Deep Learning for Natural Language Processing**" conducted by Bhilai Institute of Technology, Durg, India, from **15–19 November 2021**.
2. **AICTE Training and Learning (ATAL) Online Elementary FDP** on "**Data Science**" conducted by Indian Institute of Information Technology, Pune, India, from **20–24 December 2021**.
3. **AICTE Training and Learning (ATAL) Online Advanced FDP** on "**Data Science**" conducted by Indian Institute of Information Technology, Una, India, from **27–31 December 2021**.
4. **FDP on NEP-2020: Orientation & Sensitization** conducted by **UGC-MM TTC, JNV University, Jodhpur, Rajasthan**, under **MM-TTP, UGC, MoE, Government of India**, from **17–25 March 2025**, with **Grade A+**.

Workshops, Conferences, and Awards (Organised / Participated)

1. **Participated** in a week-long workshop on "**Advanced Computing Technologies**," organized by the Department of Computer Science and Engineering, **Motilal Nehru National Institute of Technology Allahabad**, India, from **07–11 February 2022**.
2. **Participated** in a one-day online workshop on "**Information Security Awareness (ISA-2021)**," sponsored by ISEA-II and organized by the Department of Computer Science and Engineering, **Motilal Nehru National Institute of Technology Allahabad**, Prayagraj, Uttar Pradesh, India on **27 February 2021**.

Workshops, Conferences, and Awards (Organised / Participated) (continued)

3. **Student Coordinator** for "**Learning Python Application Development for Industrial Project (LPADIP-2019)**" at **Motilal Nehru National Institute of Technology Allahabad**, Prayagraj, India, held from **10 June to 06 July 2019**.
4. **Participated** in the "**International Conference on Cloud, Big Data and Trust (ICCBDT-2013)**," supported by TEQIP-II and organized by **Rajiv Gandhi Vishwavidyalaya, Madhya Pradesh, Bhopal** in association with EMC2 from **13–15 November 2013**.
5. **Organized** a two-day workshop on "**MATLAB Applications in Engineering**" in the Department of Computer Science and Engineering, **Technocrats Institute of Technology and Science**, from **16–17 January 2013**.
6. **Participated** in a two-day National Workshop on "**Data Warehousing and Data Mining**," sponsored by the UGC and conducted at **Rajiv Gandhi College, Bhopal**, from **10–11 March 2007**.
7. **Participated** in a "**State-Level Technical Seminar**" under the event **TECHUTOPIA-2006** at **Technocrats Institute of Technology, Bhopal**, from **06–07 October 2006**.

Editorial and Review Activities

1. **Editorial Board Member** of the **International Journal of Current Trends in Engineering and Technology (IJCTET)**, **ISSN: 2395-3152**.
2. **Editorial Board Member** of the **International Journal of Innovative Research in Technology and Science (IJIRTS)**, **ISSN: 2321-1156**.
3. **Editorial Board Member** of the **International Journal of Advanced Computer Technology (IJACT)**, **ISSN: 2319-7900**.
4. **Editorial Board Member** of the **Current Trends in Technology and Science (CTTS)**, **ISSN: 2279-0535**.
5. **Reviewer** for the journal **Social Network Analysis and Mining (Springer)**.
6. **Reviewer** for the journal **International Journal of Data Science and Analytics (Springer)**.
7. **Reviewer** for the journal **Cluster Computing (Springer)**.
8. **Reviewer** for the journal **Scientific Reports (Nature Portfolio)**.
9. **Reviewer** for the journal **Neural Processing Letters (Springer)**.

Skills

OS Platforms	Linux, Windows, Mac
Coding	PHP, Python, C, C++, SQL, XML, LaTeX
Databases	MySQL
Web Dev	HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server.

Personal Information

Father's name	:	Ram Prasad Mewada
Mother's name	:	Kamla Mewada
Date of birth	:	01-July-1984
Language known	:	English, Hindi
Permanent address	:	B530, XU3, Greater Noida, 201310

References

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Declaration

I hereby declare that all the above information is true to the best of my knowledge.

Date: —-/—–/2025

Place: Greater Noida Arvind Mewada