

FACULTY PROFILE



Name: Alekh Choudhary

Designation: Assistant Professor

E_mail: alekhc@srmist.edu.in, aalekhch2010@gmail.com (Personal)

Professional Qualification:

- **PhD*** Pursuing from **Banasthali Vidyapeeth, Jaipur .**
Subject : “An Analytical Approach for Improving Secured Communication in IoT Ecosystem”
Status: Final Year (Research work about to be completed)
- **B.Ed.** from CCS University in 2021.
- **MCA** from SRM University NCR Campus, Ghaziabad in 2013.
- **BCA** from CCS University in 2010.
- **Intermediate** from C.B.S.E Board in 2007.
- **High School** form C.B.S.E Board in 2004.

Publications (Journals & Conferences):

- Sharma, Vikas, Tarun Kumar Vashishth, Mragesh Pratap Singh, Alekh Chaudhary, Sunil Kumar, and Shahanawaj Ahamad. "**Federated Learning for Privacy-Preserving Security in Wireless Networks: A Decentralized Intelligence Approach.**" In *Ensuring Secure Connectivity Through AI-Powered Wireless Systems*, pp. 169-200. IGI Global Scientific Publishing, 2026.
- Alekh, Vaibhav Vyas (2025, July 10–12). *An Approach on Multi-Layered Security Framework for Enhancing Communication in the Internet of Things (IoT) Ecosystem* [Paper presentation]. International Conference on Contemporary Trends in Science and Technology for Global Impact (ICCTSTGI-2025), Meerut Institute of Engineering and Technology, Meerut, India.
- Choudhary, Alekh, Papri Das, Vikas Sharma, Tarun Kumar Vashishth, Sanjukta Vidyant, and Sunil Kumar. "**Hybrid CNN-LSTM Model for EEG-Based Emotion Recognition: A Comparative Analysis Using DEAP and SEED Datasets.**" In *2025 International Conference on Communication, Computer, and Information Technology (IC3IT)*, pp. 1-6. IEEE, 2025.
- Gautam, Kamlesh Kumar, Alekh Chaudhary, Tarun Kumar Vashishth, Puneet Chauhan, Vikas Sharma, and Barkha Samania. "**Securing Electric Vehicles: A Cybersecurity Framework for Threat Detection and Mitigation.**" In *2025 International Conference on Intelligent Communication Networks and Computational Techniques (ICICNCT)*, pp. 1-6. IEEE, 2025.

- Vashishth, Tarun Kumar, Alekh Chaudhary, Vikas Sharma, Sachin Chaudhary, Neha Sharma, Rachna Sharma, Vineet Kaushik, and Sangeeta Sharma. **"Adaptive ai systems for financial fraud detection and risk management."** In *Artificial Intelligence for Financial Risk Management and Analysis*, pp. 431-454. IGI Global Scientific Publishing, 2025.
- **Fusing Depths: Investigating the Synergy of Convolutional Neural Networks and Long Short-Term Memory Networks for Enhanced Image Caption Generation** , Authors-Vikas Sharma, Alekh, Kirti Chaudhary, Tarun Kumar Vashishth, Sachin Chaudhary, Bhupendra Kumar, Publication date-2024/4/17,Conference-2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC-ROBINS) ,Pages -103-107, Publisher -IEEE.
- Aalekh Singh Choudhary: **Security & Services, Issues and Challenges in IOT using Blockchain Technology in Modern World, Journal of Achievements, Challenges & Opportunities** (75 Year of Independence) , pg. 241-249, 2022, ISBN- 978-93-90870-59-2.
- Alekh. (2024, March 13–14). *AIML Based Language Supported Online Shopping Assistance* [Paper presentation]. International Conference on Embracing the Digital Horizon (EDH 2024), Loyola College of Arts & Science, Tamil Nadu, India.
- Co-inventor of published Indian patent titled **"Blockchain-Based Credential Verification for Education"** (Application No. 202311073611, Published on 24 Nov 2023).
- Co-inventor of published Indian patent titled **"IoT-Enabled Smart Precision Agriculture System for Real-Time Crop Health Monitoring and Management"** (Application No. 202511015534, Published on 14 March 2025).

Awards and Achievements

- Received best teacher award in 2022 at IAMR Group of Institutions, Duhai , Ghaziabad.
- Received best paper award on the topic of "AIML based language supported online assistance system" in the International Conference on Embracing the Digital Horizon (EDH 2024), Loyola College of Arts & Science, Tamil Nadu, India.
- Received "Banasthali Innovation Award" in Nov-2025,for research scholars to drive impactful innovation.

Workshops/Seminars/FDPs

- Participated in workshop of ethical hacking during MCA 2012.
- Participated in National Workshop for Faculty Development Programme (FDP), on Leadership Skills for Teacher's at CCS University, Meerut, on 21 July, 2018.
- Participated in a Seminar at SRM University on E-Governance on 4 July, 2013.
- Participated in a workshop organised in IAMR group of Institutions on Networks Management Programming in March, 2019 by CETPA.
- Participated in a workshop organised in IAMR group of Institutions on JAVA Programming on April, 2019 by ANDRO JAVA
- Participated in international conference conducted by IAMR in Year 2019.
- Participated in National Workshop for Faculty Development Programme (FDP), on "research methodology and data analytics in social sciences & humanities" at CCS University, Meerut, from February 26 to March 15 , 2022.
- Participated in National IP Awareness/Training Program under Government of India, Ministry of Commerce & Internal Trade on "National Intellectual Property Awareness Mission" on 02 August, 2022.
- Participated in Faculty Development Programme at SRM University on "Issues of using NOSQL in OOPs based technologies" in January-2023.

- Participated in Faculty Development Programme at Banasthali University on “Issues of using NOSQL in OOPs based technologies” in January-2023.
- Participated in the One-week Online Faculty Development Programme on “Recent Tools and Techniques for Quality Research-RTTQR 2023” organized by the Department of Computer Science, Banasthali Vidyapith during 15-20th March 2023.
- Participated in GIST (Global Indian Scientist and Technocrats Forum) Meet held on 28 and 29 May, 2023 at NASC Delhi on the topic: “Scientific Solution for Glocal Challenges”.
- Participated in FDP on intellectual property rights in age of AI, ML, Cyber Security and Blockchain held on 24 to 28 June 2024 at Mangalmai Institute of Management and Technology.
- Participated in FDP on intellectual property rights in age of AI, ML, Cyber Security and Blockchain held on 24 to 28 June 2024 at Mangalmai Institute of Management and Technology.
- Participated in FDP on “**Intellectual Property Rights in the Age of AI, ML, Cyber Security and Blockchain**” organized by Mangalmai Institute of Management & Technology, Greater Noida (December 2025).
- Participated in FDP on “**Hands-on MATLAB for Engineering & Problem-Solving**” organized by MIET Meerut in association with MathWorks & DesignTech Systems Pvt. Ltd. (January 2026).
- Participated as a participant in UHV-1 in March- 2025 at SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, Ghaziabad (UP)
- Participated as a participant in UHV-II in May-2026 at SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, Ghaziabad (UP)
- Participated in 5-Days FDP on “**Agentic AI, Cyber Security & Quantum Computing**” organized by SRM Institute of Science and Technology with Edunet Foundation/ IBM Skill Build (May- 2026).

Work Experience:

- Currently working as an **Assistant Professor** with **Department of Computer Applications** in **SRM Institute of Science and technology (Deemed to be University), Delhi-NCR Campus , Modinagar, Ghaziabad** from September, 2023.

Key Result Areas-

- Working as **Assistant Professor**
- Playing role in **IQAC** as team member.
- Coordinating Departmental activities and mentorship with course.
- Working with research and development team.

- 6 Year experience as an **Assistant Professor cum Controller of Examination** with **IAMR Group of Institutions, Duhai ,Ghaziabad** from **March-2017 to September-2023.**

Key Result Areas-

- Working as **Assistant Professor**
 - Playing role as **Senior Superintendent** in CCS University Examinations.
 - Playing role in **IQAC** as team member.
 - Coordinating Departmental activities
 - Experienced in internal administrative tasks in the institution
 - Monitor and marking students work
 - Maintaining records for student's progress with Mentor-Mantee System
- **4 year** experience as a **Software Engineer** with **Competent Software Pvt Ltd, Okhla, New Delhi** from **June 2013 to March-2017.**

Key Result Areas-

- Software Development/ Developer (ASP.NET/MVC/C#)
- Database Handling (MySQL/SQL Server)
- MVC Support

Professional Memberships:

- Lifetime membership with Indian Society with Technical Education (ISTE) with ID- **LM140800**
- Lifetime membership with Indian Association of Engineers(IAEng) with ID: **390720**