

Ashwani Kumar Sharma

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<https://github.com/Aks1234-tech>

Profile Summary

Enthusiastic and detail-oriented third-year B.Tech Computer Science student at Sir Padampat Singhania University with a keen interest in machine learning, deep learning, IoT, blockchain, and cybersecurity. Currently interning at ResAiShala Technocrats India Pvt. Ltd. as an AI/ML Research Intern, developing hybrid ML-DL models, co-authoring research papers, and drafting research methodologies. Skilled in building real-world applications like decentralized blockchain systems and smart IoT energy solutions. Seeking to apply technical expertise and research skills in challenging environments.

Education

Sir Padampat Singhania University, Udaipur,
Bachelor of Technology (B.Tech) in Computer Science

Sept 2022 – June 2026

- CGPA: 8.9/10
- Relevant Courses:** Cybersecurity, Machine Learning, IoT Systems, Web development

Technical Skills

- Programming Languages:** C++ , Java, Python, Solidity
- Web Development:** HTML, CSS, JavaScript, React, Node.js
- Data Analysis & Visualization:** Python, Numpy, Pandas, Seaborn, Matplotlib, Plotly
- Frameworks/Tools:** MATLAB Simulink, Simscape Multibody, MATLAB App Designer, SQL, TensorFlow, Git
- Concepts:** Machine Learning, Deep Learning, Blockchain, IoT Systems, Cybersecurity

Experience

AI/ML Research Intern, ResAiShala Technocrats India Private Limited

Feb 2025 – Present

- Developed several ML and DL hybrid models tailored for real-world applications.
- Drafted research methodology documents and technical whitepapers.
- Co-authored research papers focused on optimization and benchmarking of AI algorithms.

Projects

False Data Injection Attack Detection System

false data injection

- Built an ML model to detect false data injection in smart grids, enhancing data integrity and system security.

Blockchain-based E-Waste Management System

- Developed a decentralized platform using Ethereum, Solidity, Web3.js, MetaMask, and IPFS for secure e-waste tracking, incentivization, and compliance.

Network Intrusion Detection System

- Designed a hybrid ensemble ML system for anomaly detection to safeguard network traffic against cyber-attacks.

Smart Solar Tracker System (SIH Winner Project)

- Created a solar tracking system using MATLAB Simulink, with a MATLAB app and Android app for real-time, location-based monitoring. Integrated ThingSpeak API for live data.

Winner – Smart India Hackathon 2024

Achievements

- Winner, Smart India Hackathon 2024 for IoT-based Solar Tracker Project.
- AI/ML Research Intern at ResAiShala Technocrats India Pvt. Ltd. with ongoing research publications.
- Developed real-time integrated platforms combining ML, IoT, Android, and blockchain technologies.