

Astha Singh

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PROFILE SUMMARY

Results-driven **B.Tech Computer Science (AIML)** student with strong foundations in data structures, algorithms, ML, and computer science fundamentals. Proficient in **React.js, Firebase Auth and AI-powered solutions**. Passionate about **leveraging technology to solve real-world challenges** through innovation and research.

EDUCATION

B.Tech in Computer Science (AI & ML)

2023 – 2027 (Expected)

Allenhouse Institute of Technology, Kanpur

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, Java, C
- **Frameworks/Tools:** React.js, Node.js, Flask, Streamlit, Firebase, Git
- **AI/ML:** TensorFlow, PyTorch, OpenCV, NLP
- **Systems:** GitHub
- **Domains:** Full-stack Development, NLP, ML

PROJECTS

JanDarpan – AI Grievance Redressal System

React, Node.js, Firebase, NLP

- Developed full-stack web app with Firebase Auth and role-based access control.
- Integrated NLP for automated complaint classification and alert generation.
- Real-time dashboard using React.

Fund Misuse Detection Dashboard

Python, React, Streamlit, Google Maps API

- Implemented Google Maps API for geo-visualizing anomaly locations.
- Integrated LLM-powered anomaly detection and real-time email alerts.
- Reduced triaging time by 60%.

Sahyatri – NGO Tracker Platform

React, Firebase, Hackathon Project

- Built a full-stack NGO tracking platform with React and Firebase.
- Designed secure user authentication and role-based data access.
- Implemented real-time updates using Firebase Realtime Database and efficient state management.
- Deployed app with Firebase Hosting and followed modular component architecture.

RESEARCH AND PUBLICATIONS

AI-Driven FHAD for Real-Time Secure Transactions

Submitted to Springer LNCS. Proposed a real-time AI-based anomaly detection model using federated learning to ensure data privacy in real time secure transactions.

COMPETITIVE PROGRAMMING

GeeksforGeeks – asthaasingh

- Solved 100+ DSA problems
- Rating: 1686 — College Rank: #59 (Allenhouse Institute of Technology)

CERTIFICATIONS

- Infosys Springboard – Introduction to Natural Language Processing (Jun 2025)
- Infosys Springboard – Introduction to Data Science (Jun 2025)
- Infosys Springboard – Full Stack .NET Web Development (May 2025)
- UpGrad – C++ Programming
- NPTEL – Cloud, IoT & Machine Learning
- NPTEL – Enhancing Soft Skills and Personality

ACHIEVEMENTS

- Finalist – BitBox 5.0 Hackathon (Top 1% among 3000+ teams)
- Led 4-member AI project team and presented to ML researchers.
- 2nd Place – IDEATE Hackathon (Smart City Theme)
- 9.27 SGPA – Ranked in top 3 of college batch
- Organizer – National Hackathon, International Conference, Tech Events

LEADERSHIP AND VOLUNTEERING

- **Campus Ambassador**, MyGov India (Apr 2025 – Present): Promoted government digital initiatives and civic engagement.
- **Secretary**, The Logic League (Mathematics and Coding Club)
- **Event Organizer**, Tech Expo, Hackathons, Conferences, and Seminars
- **Speaker**, International Conference on Logics in Mathematics and Computer Science