Akshat Mittal

Email: akshatmittal2024@gmail.com
Linkedin | Github | Codeforces
Mobile: +91 8766226219

Education

- Indian Institute of Technology, Mandi — Himachal Pradesh, India
  - B.Tech in Computer Science and Engineering — Aug 2024 - Present

    CGPA: 9.73
    Relevant Coursework: Data Structures and Algorithms, Data Science I, II

Programming Skills

- **Languages:** Python, C, C++, Html, Css, Javascript
- **Frameworks:** Sk-Learn, TensorFlow, Pytorch, MERN Stack, FastAPI, RestAPI, TailwindCss
- **Tools:** Linux, Git, Github, Docker

Projects

- Nostalgic Fever - *KrackHack'25 Winner, Google Developer Group IIT Mandi*

  HuggingFace NLP, WebSocket, JWT, Solidity, React.JS, Vite, Three.js, Node.js, Express.JS, MongoDB, Render.
  - Developed a time-locked memory capsule platform with real-time social interaction and sentiment analysis.
  - Integrated blockchain for memory authenticity and AI for analyzing emotional tone of chats.

- Line Maze Solver – *IIT Bombay TechFest'24*

  Embedded Systems, PCB Design, C++, Data Structures, Algorithms
  - Built an autonomous robot using advanced sensor mapping and PID-based motor control.
  - Engineered custom path-planning algorithms and optimized PCB design for enhanced efficiency.

- Xpensa – *AI-Powered Personal Finance Tracker*

  Pathway, Fetch.AI, Python, FastAPI, MongoDB, Streamlit, Langchain
  - Built during FrostHack'25: Enabled personalized RAG-based Q&A for users to query expenses and financial insights.
  - Integrated LLM with finance document parsing and agent-based reasoning for smart expense tracking.

- Devgatha – *AI Coding Tutor Platform*

  React.JS, Vite, Tailwind, Express.JS, Node.js, MongoDB, Render
  - Created an AI-powered platform delivering real-time code suggestions and debugging support.
  - Implemented smart tutor feedback and live code review features to improve student learning outcomes.

- GeoVision AI – *Satellite Image Analysis for Environmental Monitoring*

  U-Net, EfficientNet, FastAI, Flask, Sen1Floods11 Dataset
  - Built deep learning models for flood detection and forest segmentation from satellite imagery.
  - Deployed platform via Flask for real-time disaster monitoring and trend prediction in climate conservation.

Achievements

- Won KrackHack'25 (100+ Teams) - Intra College Hackathon, Google Developer Students Club IIT Mandi.
- Secured 2nd position in Orion Astrathon - ML Hackathon, IIT Mandi.
- Secured 2nd position in ML Space Code Competition, IIT Mandi

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Volunteering and PORs

- CSE Batch 2024 Academic Sub-Counselor
- GCS Mentor - IIT Mandi
- National Service Scheme - IIT Mandi