

Akshat Mittal

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EDUCATION

Indian Institute of Technology, Mandi

B.Tech in Computer Science and Engineering

CGPA: 9.73

Relevant Coursework: Data Structures and Algorithms, Data Science I, II, III

Himachal Pradesh, India

Aug 2024 – Present

TECHNICAL SKILLS

Languages: Python, C, C++

Frameworks: Sk-Learn, TensorFlow, MERN Stack, FastAPI, REST API

Tools: Linux, Git, GitHub

PROJECTS

Nostalgic Fever – KrackHack'25 Track Winner, GDG IIT Mandi

Jan 2025

HuggingFace NLP, WebSocket, Solidity, React, Node.js, MongoDB

- 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

Dec 2024

Embedded Systems, PCB Design, C++, Algorithms

- Built an autonomous robot using advanced sensor mapping and PID-based motor control.
- Designed custom path-planning algorithms and optimized PCB design for efficiency.

Xpensa – AI-Powered Personal Finance Tracker (FrostHack'25)

Jan 2025

Pathway, Fetch.AI, Python, FastAPI, MongoDB, Streamlit, LangChain

- Enabled personalized RAG-based Q&A for querying expenses and insights.
- Integrated LLM with financial document parsing and agent-based reasoning.

Devgatha – AI Coding Tutor Platform

Nov 2024

React, Vite, Tailwind, Node.js, MongoDB

- Built platform providing real-time AI-based code suggestions and debugging.
- Implemented live tutor feedback and automated code review features.

GeoVision AI – Satellite Image Analysis

Oct 2024

U-Net, EfficientNet, FastAI, Flask, Sen1Floods11 Dataset

- Built models for flood detection and forest segmentation from satellite data.
- Deployed system via Flask for real-time disaster monitoring and climate trend prediction.

ACHIEVEMENTS

- Track Winner, KrackHack'25 (100+ Teams), GDG IIT Mandi.
- 2nd place, Orion Astrathon (ML Hackathon), IIT Mandi.
- 2nd place, ML Space Code Competition, IIT Mandi.
- 6th place, Fresher's Coding Contest, Kamand Prompt, IIT Mandi.

VOLUNTEERING & POSITIONS OF RESPONSIBILITY

- Core Member, Heuristics, Kamand Prompt, IIT Mandi
- Academic Sub-Counselor, CSE Batch 2024
- GCS Mentor, IIT Mandi
- National Service Scheme, IIT Mandi