

Anshu Kumar

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GitHub | LinkedIn | LeetCode | HackerRank

Professional Summary

Computer Science and Data Science undergraduate with experience in machine learning, backend APIs, and data-driven systems. Built ML pipelines, REST APIs, and real-time dashboards for enterprise and applied use cases. Interested in software engineering, data engineering, and applied AI roles.

Education

Indian Institute of Technology Madras

B.S. Data Science and Applications, CGPA: 8.02

Chennai, India

May, 2024 – Apr, 2028

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science, CGPA: 9.22

Bhopal, India

Aug, 2024 – Aug, 2028

The Aditya Birla Public School, Renukoot

Senior Secondary Education, Percentage: 87.2%

Renukoot, India

2022 – 2024

Mangalam Vidya Niketan, Kolkata

Secondary Education, Percentage: 91.33%

Kolkata, India

2012 – 2022

Experience

UltraTech Cement Ltd. — Dalla Cement Works

Technology Intern – IT

Sonebhadra, UP

Apr 2025 – May 2025

- Automated logistics, procurement, and ERP workflows using SAP, Eyes on Wheel, and VendX, enabling **plant-wide operational automation** and seamless data flow across departments.
- Built a **real-time plant operations dashboard** integrating frontend and backend systems, giving supervisors, logistics, and procurement teams unified live visibility.
- Centralized all operational KPIs into a single dashboard, **cutting manual reporting by 50%** and significantly improving cross-team coordination and decision-making.

Projects

VODA-S — Anti-Piracy AI System

Python, HTML, Gemini API, OOP Architecture

January 2025

- Built **AI-driven detection and administration modules** to identify and verify pirated digital content at scale.
- Integrated **Gemini API** with **hash-based verification** for automated content similarity and infringement detection.
- Designed a **modular OOP backend** enabling scalable real-time monitoring, reporting, and take-down workflows.

Crop Recommendation ML Pipeline

Python, CNNs, FastAPI, React Native, Scikit-Learn

October 2025

- Designed a **multimodal agricultural intelligence system** combining soil image classification, geolocation-aware climate modeling, and ML-based crop prediction.
- Built a CNN soil classifier and feature-engineered ML pipeline trained on **115,000+ samples across 60 crops**, achieving **94.12% soil accuracy** and **0.927 macro-F1** under extreme class imbalance.

Skills

Languages: Python, Java, C++, HTML, CSS, JavaScript, Bash

Frameworks: Flask, Django, React, Vue.js, Bootstrap, Tailwind CSS

Data & ML: Pandas, NumPy, CNNs, Machine Learning, Model Training, Inference Pipelines

Tools: Git, Linux, Docker, Postman, VS Code

Databases: PostgreSQL, SQL

Certifications

- Tata Group — Cybersecurity Analyst Job Simulation — Nov 2024
- Google — The Bits and Bytes of Computer Networking — Dec 2025