

Uday Kukreja

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Education

VIT Bhopal University

Bhopal, Madhya Pradesh

Cumulative GPA: 7.84/10

BTech

Expected May 2026

Major in Computer Science; Minors in Artificial Intelligence and Machine Learning

Technical Skills

Languages: Java (Advanced), Python, SQL | **Concepts:** Machine Learning, Deep Learning, Data Structures & Algorithms, NLP |

Libraries/Frameworks: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib

Projects

Automated-Academic-Peer-Review-Assistant

Agentic AI System

July 2025-Sept 2025

Tech stack: Agentic AI, Python, Flask, LLM

- Developed an AI-powered peer review assistant using Python, Flask, FAISS, and sentence-transformers, automating 5 key academic review tasks: novelty detection, plagiarism check, factual accuracy, and citation analysis.
- Engineered a “Deep Search” module that scraped and indexed 1000+ research papers from 3+ sources (arXiv, Semantic Scholar, CrossRef), boosting comparison dataset size by 120% for enhanced novelty scoring.
- Integrated 3+ LLM APIs (Gemini, Hugging Face, Groq) to auto-generate structured feedback reports, reducing manual reviewer effort by 70% and enabling consistent evaluations across submissions.
- Delivered exportable JSON results and a responsive UI, achieving 60% faster review turnaro

Cancer Detection Using AI and Machine Learning

ML Based System

Oct 2024 – April 2025

Tech stack: Python, Scikit-learn, TensorFlow

- Developed and deployed multiple ML models (Random Forest, XGBoost, Logistic Regression, CNN) to detect cancer types using over 4,000 medical images and health records.
- Conducted in-depth feature analysis and hyperparameter tuning to enhance model accuracy to 96%.
- Designed an end-to-end pipeline for image preprocessing, data balancing, model training, and real-time predictions.
- Evaluated model performance using ROC-AUC, confusion matrix, and cross-validation.
- Presented research findings in a university seminar and documented the methodology in a detailed report.

Multithreaded Web Server

Java Backend System

May 2024 - July 2024

Tech stack: Java, Sockets, Multithreading, Thread Pool, HTTP Protocol

- Developed a high-performance multithreaded HTTP server capable of handling multiple client requests concurrently.
- Implemented a custom thread pool to manage worker threads efficiently, improving stability under heavy load.
- Optimized request handling using concurrent programming principles, achieving significantly better throughput compared to a single-threaded model.
- Designed clean, modular components for request parsing, routing, and connection handling to ensure scalability and maintainabilit

Extracurricular

- Sports:**
Awarded 1st prize in district sports Tournaments in Lawn and Soft Tennis.(Twice)
Awarded 1st prize in district sports Tournament in Lawn Tennis.
Awarded2st prize in district sports Tournament in Soft Tennis.
- Leadership:** Led a team of 20 student council members, fostering collaboration and effective communication.
- Event Management:** Organized and executed successful school events, increasing student engagement and participation.

Additional

Languages: Languages: Hindi (Native), English (Fluent), Sindhi (Conversational) – Participated in 10+ technical debates and authored 10+ project reports, consistently praised for clear and precise communication