Madhuram Kulshrestha

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About

Computer Science undergraduate with hands-on experience engineering machine learning models, backend systems, and cloud-based APIs. Architected and implemented ML pipelines using Python, Scikit-learn, and TensorFlow. We developed RESTful APIs with Flask and launched them in Render, driving significant reductions in latency and enhancing system performance. **Proficiency in Python, SQL, Node.js,** and **MongoDB**. Participated in National/International Hackathons and delivered multiple applied software engineering projects.

Education

VIT Bhopal University, B.Tech. in Computer Science and Engineering — July 2022 – July 2026

- GPA: 8.93/10 (Transcript)

Shanti Niketan Public School, Agra, Class XII (CBSE) — April 2020 – March 2021

- Percentage: 91.2/100 (Transcript)

St. Mary's Convent School, Agra, Class X (ICSE) — April 2018 – March 2019

- Percentage: 91.8/100 (Transcript)

Internship Experience

Data Science Intern, Sabudh Foundation (STPI) – Remote — January 2025 – July 2025

- Architected and deployed machine learning models for classification, regression, and LLM-based applications.
- Enhanced model accuracy by applying feature engineering and cross-validation methodologies.
- Leveraged AWS Lambda for efficient data management and Flask APIs for robust deployment.

Projects

Product Price Prediction and Recommendation Chat-bot — GitHub Link

- Designed a chat-bot using NLP to deliver product recommendations, increasing accuracy by 25%.
- Integrated the model with a Flask API and launched it in Render, streamlining the response time to under 3 seconds via pipeline optimization.

Videotube – Video Streaming Dashboard — GitHub Link

- Constructed back-end for a YouTube-style platform using Flask and MongoDB.
- Real-time video uploads, dynamic content rendering, and user engagement tracking.

Technologies

Languages: Python, SQL, Node.js, C++, Java

Framework/Tools: Flask, PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn

Database System/Data Tools: MySQL, MongoDB, Tableau, Excel

Hackathon Experience

TCS CodeVita 2024: Secured AIR-671 in Round 2, beating 200,000+ participants from over 3,500 institutions.

International Innovation Challenge 2024: Ranked Top 30 teams globally in a 36-hour innovation hackathon.

Achievements

- **Problem Solving Proficiency:** Top 5 percent with over 230 problems solved.
- **Academic:** Perfect 10 GPA during the interim semester 2023.

Certifications

- Geodata Processing using Python – ISRO
- Python Essentials – Vidyarthi