Madhuram Kulshrestha

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ABOUT

Computer Science undergraduate with experience developing machine learning models, backend systems, and cloud-based APIs. Designed and deployed ML pipelines using Python, Scikit-learn, and TensorFlow. Built RESTful APIs with Flask and deployed them on Render, leading to improved latency and system performance. Skilled in Python, SQL, Node.js, and MongoDB. Participated in national hackathons and completed multiple applied software engineering projects.

EDUCATION

Bachelor of Technology in Computer Science Engineering
VIT Bhopal University   *July 2022 – June 2026*
CGPA: 9.06 / 10.0

Class XII (CBSE)
Shanti Niketan Public School, Agra   *April 2020 – May 2021*
Percentage: 91.2%

Internship EXPERIENCE

Data Science   **Remote, India**
Sabudh Foundation (STPI)   *January 2025 – Present*
- Designed and deployed machine learning models for classification, regression, and LLM-based tasks.
- Improved model accuracy using feature engineering and cross-validation techniques.
- Integrated AWS S3 for data management and Flask APIs for deployment.
- Contributed to team projects analyzing public datasets and delivering actionable insights.

TECHNICAL SKILLS

- **Languages:** Python, SQL, Node.js, C++, Java
- **Frameworks/Tools:** Flask, PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn
- **Database Systems:** MySQL, MongoDB
- **Data Tools:** Tableau, Excel

PROJECTS

Product Price Prediction and Recommendation Chatbot: [Github link]
- Developed a chatbot using NLP to generate product recommendations, increasing accuracy by 25%.
- Connected the model to a Flask API and deployed it on Render, reducing response time to under 3 seconds through pipeline optimization.

Videotube - Video Streaming Dashboard: [Github link]
- Developed backend for a YouTube-style platform using Node.js and MongoDB.
- Enabled real-time video uploads, dynamic content rendering, and user engagement tracking.

Hackathon Experience

TCS CodeVita 2024
- Secured All India Rank (AIR) 671 in Round 2, outperforming 200,000+ participants from over 3,500 institutions.

Skill India Hackathon 2024
- Achieved Top 50 out of 700+ submissions; selected as internal finalist from VIT Bhopal.

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

ACHIEVEMENTS

- **CodeChef:** Attained a 1262 rating; completed 290+ algorithmic problems.
- **GeeksforGeeks**: Top 5% with over 230 problems solved.
- **Academic:** Perfect 10 GPA during Interim Semester 2023.

Certifications

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