Rohit Katkar

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Objective

As a recent Final year student, I am eager to apply my knowledge and skills in data science and machine learning. I am proficient in these fields and I am enthusiastic about contributing to innovative projects within a dynamic and growth-oriented organization.

Education

Bachelors in artificial intelligence and data science, MIT college Sept 2021 – May 2025

- CGPA: 7.43
- **Coursework:** Machine Learning,Data Analysis , Data Science, Artificial Intelligence,Deep learning , Comparison of Learning Algorithms

Higher Secondary Certificate(HSC) ,Deogiri College May 2019 – Jan 2021

- percentage: 88
- **Coursework:** Physics , Mathematics , Chemistry.

Skills

- **Technical Skills**: Python, SQL, Machine Learning, Deep Learning, etc.
- **Frameworks**: TensorFlow, etc.
- **Tools**: NumPy, Pandas, Matplotlib,Plotly, Jupyter Notebook, Git and GitHub, Tableau, etc.
- **Soft Skills**: Problem-solving, Communication, Teamwork, Creativity, etc.

Certifications

Completed the Complete Data Science and Machine Learning Program, a 6-month intensive course. This program covered advanced topics in data science, machine learning algorithms, and practical applications.
Certification Link: GeeksforGeeks Certification

Projects

Crop Recommendation System GitHub

- Built a machine learning model to recommend the most suitable crop for cultivation based on soil and environmental conditions. The system achieves **99.7% training accuracy**, ensuring highly precise and reliable crop predictions.
- **Tools Used**: Python, Jupyter Notebook, Pandas, Matplotlib, Numpy, Scikit-Learn, Git, etc.
- **Project Deployment**: Crop Recommendor

HealthCare Chatbot GitHub

- Built a Healthcare Chatbot to address patients' health-related queries and assist with symptom assessment. By fine-tuning the FLAN-T5 base model on domain-specific medical data, the chatbot delivers accurate and context-aware responses, enhancing patient engagement and providing valuable preliminary insights. This project leverages **Large Language Models (LLMs)** to improve response quality and relevance.
- **Tools Used**: Python, Jupyter Notebook, Pandas, TensorFlow, Hugging Face, Flask, HTML, CSS, Git, etc.

Real-Time Drowsiness Detection System GitHub

- Developed a real-time driver drowsiness detection system to enhance road safety by alerting drivers when signs of fatigue or sleep are detected. The model uses CNN (Convolutional Neural Network) with **98% accuracy** to classify drowsy states and triggers an alarm to prevent accidents.
- **Tools Used**: Python, Jupyter Notebook, Pandas, TensorFlow, OpenCV, Streamlit, Git, etc.