
MADHAV KUMAR YADAV

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PROFESSIONAL SUMMARY

Data Science Professional with expertise in machine learning, statistical analysis, and predictive modeling. Proficient in Python, Scikit-learn, and end-to-end ML pipeline development with strong knowledge of data preprocessing, feature engineering, and model deployment. Skilled at delivering reliable data-driven solutions through effective project execution, algorithm implementation, and model optimization techniques. Experienced in building production-ready applications with Docker containerization and REST API integration

PROJECTS

Forest Fire Weather Index(FWI) Prediction.

OCT 2025

[Github Link](#) :

- Developed a **Machine Learning web application** to predict the Forest Fire Weather Index (FWI) based on meteorological data.
- Performed extensive **Data Cleaning and EDA** on the Algerian Forest Fire dataset to identify key fire triggers.
- Implemented **Linear Regression** and tuned hyperparameters using **StandardScaler** to ensure high model precision.
- Built a user-friendly interface using **Flask, HTML, and CSS**, and deployed the application on **Render**

Student Performance Predictor

DEC 2025

[GitHub Link](#):

- Built an ML system to predict student academic outcomes using demographic and behavioral data
- Implemented end-to-end pipeline with Docker containerization and FastAPI REST endpoints
- Developed automated data preprocessing and multiple model training modules
- Established comprehensive logging and monitoring system
- Applied MLOps principles for scalable educational analytics solution •
- **Tech:** Python, Scikit-learn, FastAPI, Docker, Pandas

SKILLS

Languages: Python, C/C++, Java, HTML, SQL,

Developer Tools: VS Code, Anaconda-Jupyter Notebook, Pycharm, Spyder

Technologies/Frameworks: Git, GitHub, Flask, Django(Basic), MongoDB, PowerBI, Tableau, Docker

EDUCATION

Bachelor of Technology In Computer Science

2023 - 2027

Jagannath University Jaipur , Chaksu

CGPA – 7.7/10 Coursework: Machine

Learning, Data Structures & Algorithms, Database Management Systems, Probability & Statistics, Python Programming, Software Engineering, Big Data Analytics

CERTIFICATIONS

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- Master Microsoft Power BI: From Beginner to Data Analyst Pro – Udemy
 - Python Essentials 1 – Cisco Networking Academy (July 2025)
 - Introduction to Cybersecurity – Cisco Networking Academy (August 2024)