Shruti Maurya

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Summary

Computer Science undergraduate student with hands-on experience building machine learning pipelines, deploying full-stack applications, and integrating REST APIs. Proficient in Python, Scikit-learn, JavaScript, and Git. Proven ability to collaborate in technical teams and deliver impactful solutions.

Skills

Programming Languages: Python, Java, C++, SQL
Data Science: Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow
Concepts: Regression, Classification, Neural Networks
Tools & Platforms: Git, GitHub, Jupyter, VS Code, Google Colab, Excel
Soft Skills: Team collaboration, analytical thinking, effective communication, quick learner, timely solutions.

Project Experience

Diabetes Prediction Model *(Python, Scikit-learn, Matplotlib)* | ⓞ   *February – March 2025*
- Implemented ML models (Logistic Regression, Random Forest) on the PIMA dataset.
- Achieved 78%+ accuracy via preprocessing, feature scaling, and hyperparameter tuning.
- Assessed model performance using ROC-AUC and confusion matrix analysis.

Movie Recommendation System *(Python, Pandas, Scikit-learn)* | ⓞ   *October – December 2024*
- Processed 500+ entries to engineer a personalized recommendation engine.
- Delivered interactive movie recommendations via Jupyter Notebook, increasing user interaction by 25%
- Revamped TF-IDF vectorization by incorporating custom stop word lists and refined feature weighting, enhancing document classification accuracy by 15% and improving search relevance scores by 20%.

Weather Forecasting Web App *(HTML, CSS, JavaScript)* | ⓞ   *September – October 2024*
- Developed responsive weather app with real-time API integration and geolocation updates.
- Leveraged knowledge of JavaScript to create a weather application using DOM manipulation and API calls, which was the key finding to fix the three biggest causes of crashes.
- Increased user satisfaction by 10% in testing with 25+ users.

Education

VIT Bhopal University, Bhopal, Madhya Pradesh   *Expected May 2026*
B.Tech in Computer Science (AI & ML)
CGPA: **7.61**
Relevant Coursework: Machine Learning, Data Structures, DBMS, Operating Systems, Software Engineering

Kendriya Vidyalaya, Noida, Uttar Pradesh
12th CBSE | **85.4%**   *July 2021*
10th CBSE | **82.8%**   *June 2019*

Certifications

- Generative AI – IBM SkillsBuild   *April 2025*
- Computer Vision – VITyarthi   *December 2024*
- Applied Machine Learning in Python – Coursera   *January 2024*
- Python Essentials – VITyarthi   *May 2023*

Extracurricular Activities

- Attended Auto Engineering workshop, Advitiya 2024, VIT Bhopal
- Participated in "Finance 101" by StockPe & FinTech Club, VIT Bhopal
- Contributed in 5+ hackathons and ML seminars as an ML Club core member.

Additional Information

Languages Known: English, Hindi