

# 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.

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## 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.

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## 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.
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## 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

12<sup>th</sup> CBSE | **85.4%**

*July 2021*

10<sup>th</sup> CBSE | **82.8%**

*June 2019*

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## Certifications

- Generative AI – IBM SkillsBuild
- Computer Vision – VITyarthi
- Applied Machine Learning in Python – Coursera
- Python Essentials – VITyarthi

*April 2025*

*December 2024*

*January 2024*

*May 2023*

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## 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.
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## Additional Information

**Languages Known:** English, Hindi