Manisha Singh

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Education

Bachelor of Technology in Computer Science; Minors in Artificial Intelligence and Machine Learning
VIT Bhopal University, Bhopal, Madhya Pradesh - Cumulative GPA: 8.41
Expected Graduation: May 2026

Skills

- **Technical:** Python, Java, C++, RESTful APIs, Node.js, Firebase Auth, React.js, HTML, CSS Git, GitHub, SQL, MongoDB
- **Concepts:** AWS, DSA, backend/frontend integration, cloud computing, database optimization

Projects

Predictive Analytics for Stock Prices Using ML and Neural Networks – Ongoing

- **Tech Stack:** Python, Pandas, Scikit-Learn, Matplotlib, Seaborn, Linear Regression, Random Forest, LSTM
- Applied Python, Pandas, and Scikit-Learn for data preprocessing, feature engineering, and model training.
- Implemented and evaluated Linear Regression, Random Forest, and LSTM models to enhance prediction accuracy.
- Visualized model results using Matplotlib and Seaborn for clear stakeholder communication.

Automated Administrative Chatbot Using Dialogflow and Python - September 2024

- **Tech Stack:** Dialogflow, Python, Flask, MySQL, MongoDB
- Built a machine learning chatbot for personalized recommendations, increasing new user conversions by 15%.
- Automated admin tasks, reducing workload by 40% and improving response times.
- Developed with Dialogflow, Flask, Python, supported real-time collaboration for 100+ users.
- Integrated MySQL and MongoDB, achieving 80% data retrieval accuracy.

Banking Transaction Fraud Detection with Python and ML - July 2023

- **Tech Stack:** Python, Pandas, Random Forest, Logistic Regression, Matplotlib, Seaborn
- Validated and cleaned large transaction datasets using Python and Pandas, ensuring 95% data integrity.
- Deployed Random Forest and Logistic Regression models for anomaly detection, achieving 60% fraud identification accuracy and reducing false positives by 20%.
- Utilized Matplotlib and Seaborn for performance analysis and stakeholder reporting.

Co-Curriculars

- Hackathons – Walmart Sparkathon, Meesho ScriptedByHer, Flipkart Grid 5.0 and others.
- State level Badminton Player Junior (Under 17 & 19)
- Qualified for State Level Viksit Bharat Vision Pitch Presentation 2024.

Additionals

Certifications:
IBM GenAI Using Watsonx, May 2025
Applied Machine Learning in Python - Coursera, January 2024

Languages: Fluent in English and Hindi