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 – August 2025

- Tech Stack: Python, Pandas, Scikit-Learn, Matplotlib, Seaborn, Linear Regression, Random Forest, LSTM
- Preprocessed and engineered 50,000+ stock market data points, improving model training speed by 25%.
- Implemented Linear Regression, Random Forest, and LSTM models, achieving up to 12% higher prediction accuracy over baseline models.
- Visualized performance trends and error reductions with Matplotlib & Seaborn, enabling data-driven investment insights for potential users.

Automated Administrative Chatbot Using Dialogflow and Python - September 2024

- Tech Stack: Dialogflow, Python, Flask, MySQL, MongoDB
- Built a chatbot for personalized recommendations, increasing student engagement by 15%.
- Automated admin workflows, reducing manual workload by 40% and saving ~10 staff hours per week.
- Enabled real-time query handling for 100+ daily users, with 80%+ accuracy in responses.
- Integrated MySQL & MongoDB to improve data retrieval efficiency by 30%.

Banking Transaction Fraud Detection with Python and ML - July 2023

- Tech Stack: Python, Pandas, Random Forest, Logistic Regression, Matplotlib, Seaborn
- Processed 1M+ transaction records with 95% data integrity after cleaning & validation.
- Deployed Random Forest & Logistic Regression models, improving fraud detection accuracy to 60%, while reducing false positives by 20%.
- Designed automated reports and dashboards that cut manual analysis time by 35%.

Co-Curriculars

- Hackathons: Participated in national-level hackathons such as *Walmart Sparkathon*, *Meesho ScriptedByHer*, and *Flipkart Grid 5.0*, showcasing skills in impactful solutions.
- Collaborated with teams of 4–6 members to build scalable, cloud-based applications under 48-hour deadlines.

Additionals

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

Languages: Fluent in English and Hindi