

Manisha Singh

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Education

Bachelor of Technology in Computer Science
Minors in Artificial Intelligence and Machine Learning

Vellore Institute of Technology
Cumulative GPA: 8.43/10

Skills

- **Technical:** Python, JavaScript, Microsoft Excel, RAG Systems, NLP Preprocessing, SQL, C++.
 - **Tools:** Generative AI, Prompt Engineering, Machine Learning Algorithms, LSTM Models.
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Experience & Projects

AI-Powered Resume Screening & Job Recommendation System – [Link](#) September 2025-October 2025

- Built an AI-driven resume screening system using Python, NLP, and Streamlit to extract skills and candidate details with 100% parsing accuracy across PDF/DOCX formats.
- Implemented TF-IDF and cosine similarity-based ranking to match resumes with job postings, improving HR screening efficiency by 60–70%.
- Integrated candidate ranking and job recommendation modules into a single Streamlit app, delivering top-5 relevant job matches with 90% accuracy.

Tech Stack: Python, Streamlit, NLP, TF-IDF, Cosine Similarity, PyMuPDF, PDFMiner, Pandas, NumPy.

RAG-Enhanced Stock Market Intelligence System - [Link](#) July 2025-August 2025

- Tackled the challenge of noisy, high-volume stock market data by cleaning and structuring 50,000+ data points, resolving gaps that limited forecasting accuracy.
- Created an interactive stock-trading simulation game enabling users to test strategies with virtual portfolios and scenario-based outcomes.
- Delivered a 12% boost in prediction accuracy and 25% faster training times, turning results into actionable investment insights through clear visualizations in Matplotlib & Seaborn.

Tech Stack: Python, LSTM, Random Forest, Vector Databases, LangChain, OpenAI API

Automated Administrative Chatbot - [Link](#) September 2024-October 2024

- Engineered a sophisticated chatbot system that leverages RAG architecture to provide accurate, administrative queries that limited responsiveness and student interaction.
- Engineered a chatbot system with Dialogflow, Flask, and MongoDB, enabling personalized recommendations with 80%+ query accuracy.
- Realized a 40% cut in manual workload and a 15% rise in student engagement, while supporting 100+ daily users.

Tech Stack: Dialogflow, Python, Flask, MongoDB, Vector Search, NLP

Certifications

- IBM Generative AI Using Watsonx – May 2025
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Extra Curriculars

Smart India Hackathon, 2025

- Designed and proposed an AI-powered platform featuring intelligent candidate-opportunity matching algorithms and automated workflow management for enhanced application processing efficiency.

Debater & Badminton Player

- Competed in over 15+ inter-school debates and declamations and badminton championships for 4 years.
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Languages

English (Proficient), Hindi (Native)