

# ASHWANI SINGH

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## Education

### VIT Bhopal University

B. Tech in Computer Science (Core) | 7.41 CGPA

July 2021 – August 2025

### Daffodils Public School

PCM | 8.4 CGPA

June 2021

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## Certifications & Courses

- Applied Machine Learning in Python | Issued: Dec 2022 | Credential ID: 4L3KE682J6BC
  - NPTEL: Cloud Computing | Jan 2024 – Apr 2024 | Credential ID: NPTEL24CS17S45290225130418936
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## Technical Skills

- Programming Languages: Python, Java, JavaScript.
  - Technologies: React.js, Node.js, Next.js, Express.js.
  - Database: MongoDB, PostgreSQL, MySQL | Data Handling: Pandas, NumPy
  - Concepts: Web Development, Git & GitHub.
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## Projects

### NLP Financial Misinformation Detection

*Capstone Project* | Tech Stack: Python, NLTK, Scikit-learn, BERT | Data Handling: Pandas, NumPy

- Built a machine learning pipeline leveraging NLP techniques to detect misleading financial statements from news articles, social media, and company reports with over 85% accuracy.
- Utilized BERT embeddings and TF-IDF vectorization to capture contextual and semantic meaning in financial text, boosting model performance by 20%.
- Implemented a data labeling strategy using weak supervision and keyword heuristics to scale training data, reducing manual labeling time by 70%.
- Deployed an explainable model with SHAP for transparency, helping stakeholders understand model decisions and increasing trust in misinformation alerts.

### Chess Matchmaking and Gameplay Platform

*Personal Project* | Tech Stack: React, Node.js, TypeScript, WebSocket's, Redis, PostgreSQL

- Orchestrated the deployment of **WebSocket servers**, facilitating seamless bi-directional communication between players and reducing latency by 40% in move validation, resulting in a 25% boost in player satisfaction.
  - Engineered **real-time** move queuing using **Redis**, achieving an average latency of 15ms per move for 5,000 concurrent users, ensuring seamless and responsive gameplay on the chess platform.
  - Developed a comprehensive player rating system incorporating win rate, KDA, and average match score to provide a holistic performance evaluation, resulting in identifying the top 100 contributors.
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## Responsibilities & Achievements

- Graphic Designer, CrazyVITians Graphic Team
- Contributed to Photoshop, logo design, and content creation for campus events.
- Participated in gaming tournaments at VIT Bhopal's Gamers Arena, which drew over 200 participants and increased event visibility across campus.
- Runner-Up, U-17 in Zonal Handball Championship.