

Ravi Kumar Pal

Satna, Madhya Pradesh

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Technical Skills

Coding Languages: Java, C++, Python

Data Science & Machine Learning: Machine Learning, Pandas, NumPy, Matplotlib, Data Visualization

Development Tools: VS Code, Jupyter Notebook, Git, GitHub

Education

VIT Bhopal University, Bhopal, MP

2024 – 2029

Integrated M.Tech in Computer Science and Engineering (Computational and Data Science)

CGPA: 9.47

Govt. Higher Secondary School, Shyamnagar, Satna, MP

2023 – 2024

Senior Secondary (MPBSE)

Percentage: 97.2%

Govt. Higher Secondary School, Shyamnagar, Satna, MP

2021 – 2022

Secondary (MPBSE)

Percentage: 94.6%

Internship

Fresher

Actively seeking internship opportunities to apply skills in Data Science, Machine Learning, and Software Development.

Projects

Contactless Employee Authentication Using Gait Analysis

GitHub

- Built a contactless employee authentication system using smartphone accelerometer and gyroscope data to address limitations of traditional card-based access control.
- Implemented signal preprocessing (noise filtering, gravity removal, sliding window segmentation) and engineered statistical features to capture unique gait signatures.
- Formulated the task as a multi-class classification problem and trained a Random Forest model with cross-validation for employee identification.
- Designed a confidence-based access control mechanism to reject unknown users and integrated an LLM-based explainability layer for transparent decision reporting.

Stock Market Prediction System

GitHub

- Collected historical and real-time stock data using `yfinance` and Kaggle datasets.
- Performed preprocessing and feature engineering using technical indicators and moving averages.
- Built predictive models using LSTM and hybrid ML approaches.
- Visualized actual vs predicted prices with 50, 100, and 200-day moving averages.

Certifications

- Programming in Java** – VIT Bhopal (Oct 2025) — Certificate
- Data Analytics Job Simulation** – Deloitte (Jun 2025) — Certificate

Achievements

- STARS Scheme Scholar – 100% scholarship by VIT Bhopal (Aug 2024)
- INSPIRE Award – Top 1% nationally, Government of India
- 6th Rank in State Merit – Class 12 (MPBSE)

Extra-Curricular Activities

- Core Member, Technical Team — FinTech Club, VIT Bhopal
- Strong problem-solving, leadership, and time-management skills