

Diya Matani

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EDUCATION

Vellore Institute of Technology

2022 - 2026

B.Tech in Computer Science and Engineering — CGPA: 8.87

SKILLS

- **Languages:** Python, C, SQL
- **Technologies/Frameworks:** Streamlit, Flask, Machine Learning, Data Science
- **Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Plotly, LightGBM, SciPy
- **Tools & Applications:** Git, GitHub, VSCode, PostgreSQL, MySQL

EXPERIENCE

BLG Technologies (P) LTD

Dec'24 – Mar'25

Intern (Winter Internship)

- Engineered automated ETL pipeline using Python and SQL to process hostel fee collection data, reducing manual reconciliation time by 40% and eliminating data entry errors.
- Designed and deployed real-time analytics dashboard with interactive visualizations tracking collection rates, occupancy trends, and overdue payment KPIs for management decision-making.
- Architected normalized PostgreSQL database schema ensuring data integrity through foreign key constraints and optimized query performance.

PROJECTS

Engine Rating Prediction

[Live] [GitHub]

Python — Streamlit — LightGBM — Scikit-Learn

- Built ML pipeline using LightGBM predicting vehicle engine health from 60+ parameters ($R^2 = 0.7$).
- Created Streamlit dashboard with Quick Scan and Detailed Inspection modes for real-time diagnostics.
- Implemented analytics suite using Seaborn/Graphviz for feature correlation and explainable AI insights.

Energy Insight

[Live] [GitHub]

Python — Streamlit — Scikit-learn — Google Gemini Pro API

- Developed Random Forest model predicting heating/cooling loads from building geometry parameters.
- Engineered model processing 25+ features including real-time sensor and weather data for consumption forecasting.
- Integrated Google Gemini Pro API for AI chatbot providing personalized HVAC and energy-saving recommendations.

Marketing Campaign Performance Analytics

[Live] [GitHub]

Python — Streamlit — Scikit-learn — Statistical Testing

- Built dashboard analyzing 64,000+ records with real-time KPI visualization (conversion rate, AOV, visit rate).
- Implemented Logistic Regression for conversion probability scoring and optimized budget allocation.
- Conducted A/B testing using Chi-Square and T-Tests, identifying "Apparel Email" strategy with measurable ROI lift.

ACHIEVEMENTS

- **Limca Book of Records & Indian Book of Records** — Recognized nationally for exceptional mental arithmetic skills at Trendz Abacus.
- **Runner Up — Project Expo** — Secured Top 10 position at Industry Conclave VITB 2024.
- **500+ Problems Solved** — LeetCode, GeeksforGeeks — Strong problem-solving skills in DSA and OOP.
- **Certifications:** Applied Machine Learning in Python (Coursera) — Cloud Computing (NPTEL).

POSITION OF RESPONSIBILITY

- **Pahal Kids Classes** — Conducted and organized classes and activities for workers' children, enhancing communication and leadership skills.
- **Technical Member at Google Developer Groups** — Contributing to technical initiatives and community development.