

PIA GUPTA

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ABOUT

Ambitious and resourceful problem-solver with a passion for coding. A self-driven and inquisitive individual, dedicated to exploring new domains and expanding my learning curve.

EDUCATION

Thapar Institute of Engineering and Technology, Patiala, Punjab

Oct 2021-Jun 2025

B.E., Computer Engineering

Amity International School, Sec-46, Gurugram

XII CBSE BOARD : 96.67%

Apr 2021

X CBSE BOARD : 99.4% (**AIR 3**)

Apr 2019

SKILLS AND ABILITIES

Languages: Python, C++, C, SQL, PL/SQL

Constructs & Coursework: AI/ML, DSA, HTML, CSS, OS, DBMS, OOPS, CN

Developer Tools: Microsoft VS code, Google Colab, Arduino IDE, MATLAB, Jupyter Notebook, Git, Github

Libraries: Numpy, Pandas, Matplotlib, Scikit-Learn, Seaborn, TensorFlow, Keras

Soft Skills: Leadership, Event Mgmt, Marketing, Strong communication skills, Critical Thinking

PROJECTS

GLUCARE: Non-Invasive Glucose Monitoring System Using NIR Spectroscopy [[GitHub](#)]

A convenient, reliable blood glucose monitoring system facilitating frequent, painless testing for diabetics and non-diabetic patients.

- Developed and validated a high-accuracy (95%) system using **ML, Raspberry Pi 4**, ADS1115, NIR sensor, and user interface (keypad & LCD).
- Analyzed sensor data at **940nm** along with age, BMI, and gender as primary inputs for model training.
- Optimized ML model selection using **R-squared, MAE, MSE, and K-fold CV**, achieving superior performance with Random Forest.

SALES PREDICTOR: Sales Forecast Prediction System [[GitHub](#)]

Project centered on maximizing sales of existing and new product launches through strategic decision-making in retail stores.

- Executed complete **software development lifecycle** from requirement analysis and designing to implementation through detailed UML diagrams. Conducted robust testing.
- Evaluated **Linear and Lasso Regression** models to achieve accurate sales forecasts.

RIDEX: Taxi Management System [[GitHub](#)]

A centralized Taxi Service Database for efficient management of services, drivers, passengers, and financial transactions.

- Employed **PL/SQL** for procedures, triggers, cursors, and functions.
- Ensured data efficiency through **normalization** principles and an **ER diagram**, enhancing inter-city travel.

EXPERIENCE

Media and PR Head at LEAD TIET

Apr 2023 – Apr 2024

- Managed the society's objectives, media presence, and event promotion strategies for heightened awareness and engagement.
- Led a team of over **100 students**, ensuring seamless event management and enhancing society's visibility.
- Demonstrated over **2.5 years** of steadfast commitment to the society, consistently advanced its mission and goals.
- Planned, coordinated, and executed tech and non-tech events such as **Matrix 2.0, Envoyage, Shoonya 4.0**, ensuring seamless and effective implementation.

Core Member at SATURNALIA TIET: Largest Techno-Cultural Fest of North India

Oct 2022 – Nov 2022

- Assumed key role in the event mgmt team, overseeing and coordinating critical aspects of the fest.