

Ayush Gupta

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EDUCATION

Electronics and Telecommunication Engineering

Sardar Patel Institute Of Technology

July 2026

Mumbai, India

EXPERIENCE

Software Development Intern

DigiPlus IT

Jan. 2026 – Jun. 2026

Mumbai, India

Enhanced a production-grade **Enterprise Resource & Campaign Management System** using **React, Node.js, Express, and MongoDB**, developing REST APIs, automating invoice and proposal workflows, optimizing dashboards, and integrating **AWS S3** for document storage.

PROJECTS

Financial Modeling & Comparable Company Valuation–Hero MotoCorp

Aug. 2026

- Built a driver-based financial model using historical financials, operating metrics, and sector assumptions to forecast revenue, expenses, EBITDA, and PAT, while analyzing profitability and key operating drivers.
- Performed comparable company valuation using P/E and P/S multiples, benchmarking Hero MotoCorp against Bajaj Auto, TVS Motor, and Eicher Motors to derive an implied target valuation and assess investment attractiveness.

Quadcopter: Automatic License Plate Recognition | Python, YOLOv8, OpenCV

Nov. 2025

- Built a real-time UAV-based **license plate recognition system** using **YOLOv8 (Ultralytics)**, **EasyOCR**, **OpenCV**, and **SORT**, performing inference on **analog video transmission**.
- Improved detection accuracy from **0.86 to 0.92 mAP@0.5** via a **cloud-ground retraining pipeline** (Google Colab, Tesla T4) and optimized latency to **169–209 ms** under noisy, real-world conditions.

Jasdaq: Low Latency Stock Trading Engine | Java, Spring Boot, MySQL

Aug. 2025

- Built a full-stack HFT system using Spring Boot, Django, React, and MySQL with a real-time price-time priority matching engine, WebSocket live order book updates, and UDP multicast for low-latency market data broadcast.
- Designed an admin-controlled share-pool mechanism via Django Admin that auto-injects IPO SELL orders into the matching engine; trade results are dual-broadcast over UDP multicast and WebSocket STOMP for browser clients.

PUBLICATIONS

Real-Time UAV-Based License Plate Recognition via Analog Video Transmission and Closed-Loop Cloud–Ground Incremental Learning

IEEE CONIT 2026

Published a study on a cloud-ground collaborative LPR system using UAV-based analog video transmission, YOLOv8, and EasyOCR. Reduced full-plate failure rate from **18.7% to 9.6%** while maintaining **169-209 ms** end-to-end latency.

SKILLS

Languages: Python, Java, SQL

Platforms & Tools: Excel, Power BI, PowerPoint

Finance Skills: DCF Modelling, Merger & Acquisition, Capital Budgeting Techniques

CERTIFICATIONS

Finance: Introduction to Corporate Finance (Great Learning Academy)

Analytics: Business Analytics (Techfest, IIT Bombay)

POSITION OF RESPONSIBILITY

Training and Placement Coordinator | S.P.I.T

June 2024

- Managed end-to-end campus recruitment operations, coordinating with firms such as **Barclays** and **WorkIndia**, maintaining placement databases, and acting as the primary interface between recruiters, faculty, and students.