

Priyanshu Mishra

B.Tech Computer Science Student

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GitHub: <https://github.com/Kerbecs>

Education

Vellore Institute of Technology (VIT), Bhopal

Expected Jun 2026

Bachelor of Technology in Computer Science · GPA: 8.39 / 10.00

Technical Skills

- **Languages:** C++, Python
- **Technology, Tools & Libraries** Networking , Tensorflow, FastAPI, Django, SQL, C programming(core concepts), DSA

Experience

Emilio Beaufort | AI & Backend Intern

July 2025 - Oct 2025

- Re-architected the sales CRM backend using **MongoDB** and **FastAPI**, optimizing data retrieval speeds for the lead pipeline.
- Engineered an automated pipeline integrating **Google Calendar APIs**, reducing manual coordination latency by eliminating 5+ hours of weekly overhead.
- Developed a real-time data processing system for call reports, ensuring immediate availability of performance metrics for the management team.
- Reduced sales response generation time by implementing optimized logic within the Agentic AI pipeline.

Projects

ProfitTrade | High-Frequency Trading Logic (C++)

Academic Project

- Developed a multi-threaded trading simulation in **C++** to identify arbitrage opportunities in real-time via the CoinDCX API.
- Implemented secure API authentication using **OpenSSL** to generate HMAC-SHA256 signatures for order execution.
- Utilized **C++ REST SDK (Casablanca)** for asynchronous HTTP communication and **nlohmann/json** for efficient JSON parsing.
- Designed the system with manual memory management and thread-safe operations to handle rapid market data updates.

Multimodal Price Prediction | Amazon ML Challenge

Oct 2025

- Engineered a data fusion pipeline merging image features (ResNet-50) and text embeddings (BERT) to boost prediction accuracy.
- Constructed a scalable training pipeline using **Pandas** and **Torch DataLoader** to efficiently handle and process large-scale datasets in memory.
- Secured a top 17% national rank by optimizing model hyperparameters and algorithmic efficiency.

Achievements

- **AMAZON ML CHALLENGE 2025:** Secured a top 17% national rank (787 out of 4800+ teams) among premier institutes.
- **LeetCode contest (Rating: 1600+):** Solved 250+ problems focusing on Data Structures and Algorithms.
- **Intra-VIT DSA Contest:** Secured a top 4 finish among 100+ participants demonstrating strong algorithmic problem-solving skills.
- **Open Source Club Lead:** Spearheaded technical workshops on practical skill adoption and development tools.