

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:** Python, C++
- **Frameworks & Libraries:** PyTorch, TensorFlow, FastAPI, Django, LangGraph
- **Databases & Technologies:** Machine Learning, Deep Learning (CNN, PINN), Databases(MySQL, PineCone)

Experience

Emilio Beaufort – AI and Automation Intern

Jul 2025 – Oct 2025

- Developed a generative AI pipeline using **FastAPI**, **Pinecone**, and **Gemini Pro**, reducing sales response generation time by over **20%**.
- Re-architected the sales CRM using a **MongoDB** backend, automating the lead pipeline and increasing qualification efficiency by an estimated 40%
- Deployed a **Google Calendar API integration** for automated scheduling, eliminating over 5 hours of weekly manual coordination for the sales team.
- Engineered a system for automated daily call report generation, providing managers with immediate, actionable performance data.

Projects

Multimodal Price Prediction

Oct 2025

- Engineered a data fusion pipeline in **PyTorch**, merging image features from **ResNet-50** and text embeddings from **BERT** to boost prediction accuracy by **30%**.
- Constructed the final regression model using an MLP, engineering a scalable training pipeline with **Pandas** and **Torch DataLoader** to handle large-scale datasets efficiently.

Vapour Composition Prediction using PINNs

Sep 2025

- Engineered a novel Physics-Informed Neural Network (PINN) in **PyTorch** to solve the challenging problem of Vapor-Liquid Equilibrium (VLE) prediction for an ethanol-water azeotrope.
- Pioneered a custom loss function integrating Modified Raoult's Law, directly embedding thermodynamic principles into the model to ensure physical consistency and superior accuracy.
- Validated the model's high precision, achieving a final Mean Absolute Error (MAE) of **0.052** and predicting the azeotrope with **<2% error**.

Achievements

- **AMAZON ML CHALLENGE 2025:- Secured a top 17% national rank** (787 out of 4800+ teams), competing against talent from India's premier technical institutes in amazon hackathon.
- Attained a **1600+ rating on LeetCode** by mastering over 200 medium and hard DSA problems within 3 months.
- Secured a **top 4 finish among 100+ participants** in the Intra-VIT DSA Coding Contest.
- **Open Source Club Lead:** Spearheaded 5+ technical workshops, boosting club membership and practical skill adoption.
- **University Athlete:** Demonstrated high discipline and time management by balancing a competitive university athletic schedule with a rigorous B.Tech Computer Science curriculum.