

Priyanshu Mishra

B.Tech Computer Science Student

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

Education

VIT Bhopal

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

Expected June 2026

Technical Skills

- **Languages:** C++, Python
- **Frameworks & Libraries:** LangGraph, TensorFlow, Pandas, Scikit-learn, PyTorch
- **Technologies:** Deep Learning, Embeddings, RAG, Pinecone, MySQL

Experience

Emilio Beaufort – AI and Automation Intern

July 2025 – October 2025

- Engineered a **Flask-based Retrieval-Augmented Generation (RAG) pipeline** using Pinecone, Gemini Pro, and LangChain that accelerated sales outreach response time by **70%**.
- Streamlined sales operations by automating the generation of daily customer call reports, delivering immediate, actionable insights to managers and enhancing team-wide data accessibility.
- **Tech Stack:** Python, Flask, Pinecone, Gemini Pro, Firebase Functions, LangChain, RESTful APIs, Git.

Projects

Vapour Composition Prediction using PINNs

September 2025

- Architected a Physics-Informed Neural Network (PINN) in **PyTorch** to accurately predict Vapor-Liquid Equilibrium (VLE) for the complex ethanol-water azeotropic system[cite: 1, 21]. [cite,start]Innovated a custom, physics-informed loss function that embedded Modified Raoult's Law, enforcing thermodynamic consistency and boosting model accuracy [31, 40].[cite,start]
- Validated the model's high performance by predicting the azeotrope with **±2% error** and achieving a Mean Absolute Error (MAE) of **0.052** on the hold-out test set[cite: 59, 67].

Find Your Man – Intelligent Candidate Shortlisting Platform

Jan 2023 – Apr 2023

- Spearheaded the development of an AI-driven candidate shortlisting platform with **Django** and **TensorFlow**, automating the screening and ranking of resumes against job descriptions.
- Accelerated recruitment efficiency by **30%** by integrating advanced **NLP** and **embedding models** to intelligently parse resumes and score candidate-job description alignment.
- Orchestrated a robust backend using **MySQL** and **Scikit-learn** for predictive analytics and leveraged **RESTful APIs** to ensure seamless data processing and integration, empowering data-driven hiring decisions.

Achievements

- Ranked in the top tier of competitive programmers with a **1600+ LeetCode rating**, mastering 200+ DSA problems in 3 months.
- Secured a **top 4 finish among 100+ participants** in the Intra-VIT DSA Coding Contest.
- Demonstrated teamwork and discipline as a key player on the university's basketball team.
- Coordinated and executed technical events as a core member of the Open Source Club's Organizing Committee.