Vivek Karadbhajne

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LinkedIn | GitHub | LeetCode

Objective

A dedicated Computer Science professional with a passion for Generative AI, Machine Learning, and Deep Learning. Experienced in data analysis, model development, and data visualization tools, complemented by strong problem-solving skills and attention to detail. Skilled in team collaboration and communication. Eager to learn, grow, and apply my skills to deliver high-quality work while learning from experienced professionals in the field.

Skills

Technical Competencies: Java, Python, C/C++, SQL, HTML, CSS, Power BI, LLMs
Behavioral Competencies: Leadership, Team player, Communication, Adaptability, Problem-solving

Education

Bachelor of Technology (B.Tech) in Computer Engineering (AIML)   **May 2025**
Yeswantrao Chavan College of Engineering, Nagpur, India
CGPA: **8.9**

Experience & Projects

Virtual Mental Health Therapist (Final Year Project)   **Ongoing**

- Developing an **explainable AI chatbot** for mental health support using fine-tuned LLMs and vector databases.
- Developed a **RAG model** to extract relevant chunks from large medical corpora for accurate query answering.
- <u>Skills Gained:</u> **Fine-Tuning, LLMs, Vector Databases, RAG, Data Engineering.**

EXPO Management Application (IIIT Nagpur Hackathon)   **May 2024**

- Developed **LSTM networks** to forecast the number of people visiting the EXPO, considering weather and other factors.
- Created a real-time data visualization dashboard for management and stall owners using **Power BI.**
- <u>Skills Gained:</u> **LSTMs, Deep Learning, Power BI, Data Visualization, Data Preprocessing**

Intel Unnati Summer Training Program - Trainee   **Jun - Aug 2024**

- Trained in the **OpenVINO** toolkit to optimize local AI applications on Intel AI laptops.
- Developed custom fine-tuning data for hex code generation using the Burkelibbey colors dataset.
- Fine-tuned a large language model to generate hex codes based on natural language using the **TinyLlama-1.1B-Chat-v1.0** model.
- <u>Skills Gained:</u> **Fine-Tuning, OpenVINO, Prompt Engineering, Huggingface**

Intel Unnati Summer Training Program - Trainee   **Jun - Aug 2023**

- Trained on the Intel OpenVINO toolkit for optimizing deep learning models deployed on the cloud.
- Developed a **deep learning** model to classify fashion product images using the Fashion-MNIST dataset.
- Created a **Docker** container to deploy the model on Intel's cloud for live image classification.
- <u>Skills Gained:</u> **Deep Learning, Docker, CNN, TensorFlow, Computer Vision**

Certifications & Achievements

- **2nd Runner-up, IIIT Nagpur Hackathon (Udyaan 2024), INR 15,000.**
- **Completed PwC's Cloud and Digital Launchpad program.**
- **Solved 500+ LeetCode problems with a 365-day streak.**
- **Elected as president of ICTRD YCCE Student Club.**

Languages & Interests

Languages: English, Hindi, Marathi
Interests: GenAI, Competetive Programming, Hackathons.