Kshitij Shah

Kandivali, Mumbai 400067

📞 8433598584 ✉ kshitij.d.shah.999@gmail.com in Kshitij Shah ⚙ kshitijdshah99

EDUCATION

Veermata Jijabai Technological Institute   **Nov 2022 – Present**
Third Year B.Tech in Computer Engineering.
Prakash College of Commerce and Science   **July 2020 – Nov-2022**
*HSC-**87.67%** | MHTCET-**99.87%ile** | JEE MAINS-**96.06%ile***

EXPERIENCE

Sugarlabs – Google Summer Of Code ↗   **May 2024 – Present**
Open Source Contributor - Python, Large Language Models, Docker, Kubernetes
· **Sugar is a desktop environment** having a collection of 300+ activities. Pippy Activity being one of them. **Pippy** is actually **where the kids learn python coding.** My task is to **add a co-pilot like AI-assistant** to Pippy activity.
· Experimented different generative LLMs like **Gemma, Gemini, Bloom, Mistral, CodeLlama and Llama family.**
· Implemented **RAG using open source Large Language Model Llama3.1 - 8B from Ollama** for code generation and also help software developers **navigate through the basics of Pygame and GTK documentation.**
· **Enhanced the UI of Pippy using Python and GTK and Sugar toolkit** such that it can accommodate the AI assistant and all it's functionalities.
· Deploying the model on cloud computing platforms like **AWS and Microsoft Azure using Docker and Kubernetes.**

COMPETITIONS

Karigar ↗ | *Python, Large Language Models*
· Built a website Karigar to **help local artisans and craftsmen** to advertise and **sell products** to their target audience **at affordable rates**.
· Implemented **generative tasks** like caption and blog generation using **Gemini API** to be put up on the social media.
· Used **Stable Diffusion models for image generation.** These images where used for making attractive advertising pamphlet.

PROJECTS

Transformer From Scratch ↗ | *Python, Numpy Libraries*   **Sept 2023 – Nov 2023**
· Implemented **Transformer Architecture** made from Scratch using **Numpy and Cupy libraries**.
· Explored Transformer Architecture and it's working from various research papers like **Attention is All You Need**, developed a transformer model with **encoder and decoder stacks.**
· **Trained on various datasets** to check it's computational abilities where we **achieved a relatively high efficiency.**

StockRush ↗ | *JavaScript, NodeJS, ExpressJS, MongoDB, Python, Transformers*   **Nov 2023 – Present**
· Developed a **stock game** in which people **join in communities and trade stocks** based on **120+ news for 50+ stock listed companies.**
· **Designed complex trading algorithms** that cause stock prices to vary based on **demand and supply.**
· Implemented **user authentication, trading rounds, and portfolio management** in the database.
· Using **sentiment-analysis transformer models**, we **predicted the severity of news** and **adjusted the stock value** of a firm appropriately.

ACHIEVEMENTS

∗ Selected **among 1220 students for Google Summer of Code 2024 out of 40k+** developers round the world ↗
∗ Built an **Anti-Drunk Alcoholic Driving System** using Arduino and presented in an event with **footfall of 5k+**
∗ **Won 2nd prize in Technovation** amongst top 10 shortlisted teams. ↗
∗ Cleared Level 1 of **Trinity College London** ↗
∗ Participated in **hackathon held at SPIT and selected among top 20 in the final, out of 300+ teams.** ↗

TECHNICAL SKILLS

Languages: Python, C++, JavaScript
Developer Tools: VS Code, Google Colab, Jupyter Notebook, GitHub, Linux
Technologies/Frameworks: Nodejs, Expressjs, Postman, Numpy, Matplotlib, Large Language Models
Databases: MongoDB, MySQL

LEADERSHIP / EXTRACURRICULAR

Community of Coders, VJTI
· Spearheaded **5 workshops for a total of 500+ mentees** helping them explore C++, DSA and Computer Vision.
· Organised **2 hackathons** for Competetive Programming and Development projects.
· Currently **mentoring 2 teams** for core machine learning and deep learning projects.

Technovanza, VJTI – *Department Head,* **previously served as** *Technovanza Manager*
 - *Managed an event of ISRO exhibition with a **whooping footfall of 60-80k***

Pratibimb VJTI – *Sponsorship Manager*
 - *Performed **Cold emailing to several companies and startups for collection of funds.***