Sushant Bagul

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Education

Veermata Jijabai Technological Institute(VJTI) — **Nov 2022 – current**
Bachelor of Technology in Computer Engineering CPI: 8.14 — *Mumbai, Maharashtra*

Pace Junior Science College — **Sep 2020 -May 2022**
HSC board Percentage:86 — *Mumbai, Maharashtra*

Cambridge School Kandivali — **2007-2020**
ICSE Board Percentage:96 — *Mumbai, Maharashtra*

Relevant Coursework

- Artificial Intelligence
- Operating Systems
- Computer Networks
- Database Management
- Software Engineering
- Deep Learning
- Data Analytics
- Data Structures
- Natural Language Processing

Projects

Mental-Health-Navigator | *Python, Fine-Tuning LLM,Flask* ⌂ — OCT 2023-JAN 2024
- Launched a comprehensive full-stack web application addressing mental health challenges.
- Designed and implemented a mental health chatbot acting as a medical AI assistant providing health advice.
- Loaded **LLama-2** Model from Hugging Face and **fine-tuned** it with a mental-health dataset **(2500 data points)**.
- Integrated the chatbot model with a website using **Flask** and **Ngrok** to connect the Colab notebook.

Facial Expression Detection | *Python, Flask, Tensorflow, OpenCV, Deep Learning* ⌂ — FEB 2024-MAR 2024
- Developed an application to detect facial expressions using deep learning.
- Constructed and fine-tuned a **CNN model** with **5,000 grayscale** images to recognize seven distinct facial expressions.
- Used **OpenCV Face Detection Algorithm** to detect faces from webcam.
- Deployed model using Flask API and created a webpage to test it.

Freelanza (SIH Group Project) | *Html/Css,React js,Node js* ⌂ — SEPT 2024-Present
- Created a full-stack web application to help freelancers find jobs by creating profiles and adding skills.
- Designed Interface for Organization to manage Job applications
- **Enhanced backend** functionality for employers to post jobs, review, reject or recruit freelancers.
- Role-based authentication for freelancers and organizers.

FinVoice-Assist | *Python,Flask,Langchain,Gemini,Face-Recognition* ⌂ — DEC-2024-Present
- Built a **Voice Based Finance Assistant** for visually impaired customer.
- Facial-recognition library for authentication
- Added **Langchain Tools** for assisting in banking activities like generating financial advise,check balance etc.
- Integrated **(Retrieval Augmented Generation)** with llm model to fetch information from financial documents

Technical Skills

Languages: C++, Python, SQL, Javascript, HTML/CSS
Technologies: Deep Learning, Natural Language Processing, Generative AI, Computer Vision
Tools/Framework: PyTorch, TensorFlow, OpenCV, Streamlit, Express js, Node js, Git, GitHub, Google Colab,Power BI

Positions of Responsibility

Community Of Coders(COC) — **FEB 2024 – Present**
*Core Committee Member of **brAIn**, the machine learning community at VJTI..* — *VJTI*
- Instructor in a DSA workshop, teaching 50+ students programming fundamentals and problem-solving
- Mentored juniors in DSA and AI/ML project development .
- Managed Codeverse, a club fest with participation from over 100 students..

Certifications

Completed IBM Machine Learning Course on Coursera: View Certificate