VEDANT DESHMUKH

vedantdeshmukh1983@gmail.com https://github.com/VedantDeshmukh1

Pune, MH, India

Phone: +91 9765407673

EDUCATION

Bachelor of Engineering, Computer Engineering Dr Vishwanath Karad MIT-WPU (GPA: 9.43/10) **Nov 2021 - Present HSC**

KHS Jr. High School , Pune (Per : 89%) **2020-21**

SSC Abhinava Vidyalaya English Medium High School , Pune (Per: 90.8%) **2018-19**

SKILLS

Languages: Python, C, C++, Shell, MySQL, HTML/ CSS, JS

Frameworks and Libraries : Scikit-Learn, Pandas, NumPy, Matplotlib, PyTorch, Flask,NLTK, GTTS,Whisper,YOLO

Tools and Technologies: Github, MS Excel, Jupyter Notebook, Google Colab, MongoDB Atlas, Notion

Databases : MySQL, MongoDB,Firebase,Supabase | **OS Experience :** Windows ,Linux

WORK EXPERIENCE

Machine Learning Intern at Fox Trading *Feb 2024-April 2024*
- Worked on understanding and implementing various machine learning,deep learning and reinforcement algorithms.
- Applied the algorithms on various real life problems to perform classification and regression tasks to help determine results with great accuracy.
- The intern team with a collaborative mindset strived to solve various real life problems.

Build Fast With AI *May 2024*
- Working with state of the art LLM's by creating streamline applications by fine tuning LLM's
- Using Generative AI to automate complex tasks.
- Fine tuning of new age LLM's like Clause-3-opus,GPT-4o,gemini-pro-vision,WizardLM, LLaMa3.

ACADEMIC PROJECTS

ViziAssist *September 2022-Present*

- Created the framework for road obstacle detection system using data collected from the IDD dataset. ● The model, currently in an alpha stage, can efficiently classify road obstacles such as cars, and pedestrians. ●

Developed from the ground up using the NVIDIA Jetson Nano Developer Kit.
- A paper for the same has been submitted to relevant conferences.

SkillSet Sherpa *September 2023*
- Created a chatbot for career guidance of students using a pre-trained LLM.
- A complete web interface was made using Python Flask as the backend and HTML, CSS as the frontend. ● Used an OCR model to extract data from student marksheets, along with the result of the Holland Code (RIASEC) Test to tailor a prompt to be provided to the LLM to work with.
- The code for the same can be accessed here.

One View *September 2023-December 2023*
- Created a group photo sharing platform, where a group of people can click and share photos amongst themselves. ● The full stack project used MongoDB and Python as the backend, and HTML, CSS and JS as the frontend. ● The project also includes a facial clustering algorithm, to simplify the process of finding images, using the DBSCAN model.
- The code for the same can be accessed here.

Free Raj *September 2023-December 2023*
- Created a canteen food ordering platform for college students and canteen vendors.
- The full stack project used MongoDB and Python as the backend, and HTML, CSS and JS along with D3.js for interactive graphs as the frontend.
- The project also includes a food recommendation system that works with calculating cosine similarity between user ordered items.
- The code for the same can be accessed here.

Twitter Sentiment Anal *October 2023-December 2023*
- Created a twitter sentiment analysis project that analyzes the twitter comments using the RoBERTa pre-trained model. ● The full stack project used MongoDB and Python as the backend, and HTML, CSS and JS along with D3.js for interactive graphs as the frontend to visualize the sentiments of the comments.
- The project works with high accuracy and caters to a wide range of use cases that can be used to detect spamming and hate speeches on social media.
- The code for the same can be accessed here.

Video Transcribing *March 2024-Present*
- An end to end video transcribing project that takes a video input and provides the transcribed text with great precision. ● Made use of OpenAI's WHISPER API for the video processing.
- Additional implementations include the use of NLP to make corrections in the output text file.
- The code for the same can be accessed here.

COURSES

Web Development

- Introduction to Web Development with HTML, CSS, JavaScript - **IBM, Coursera**
- Introduction to Cloud Computing - **IBM, Coursera**

GPU Coding
- Fundamentals of Accelerated Computing with CUDA Python - **NVIDIA Deep Learning Institute**

- Fundamentals of Accelerated Computing with CUDA C/C++ - **NVIDIA Deep Learning Institute**

Machine Learning
- Introduction to Machine Learning - **NPTEL IIT Kharagpur**
- Machine Learning,Deep Learning, AI Workshop **- NITTTR Bhopal**
- Machine Learning - **NPTEL IIT Kharagpur**
- Getting Started with AI on Jetson Nano- **NVIDIA**
- Supervised Machine Learning: Regression and Classification - **Coursera**

Python Programming
- Programming, Data Structures And Algorithms Using Python - **NPTEL IIT Madras**
- Python for Data Science - **NPTEL IIT Madras**

Entrepreneurship
- StartUp India Learning Program **- startup india**

EXTRA CURRICULARS

WILDLIFE PHOTOGRAPHY

- Won the First Prize in the photography competition held in MIT-WPU Category Wildlife.
- Featured on the NIKON India Instagram Page.
- Featured Photographer by Nature In Focus.
- Participated in a Bird-Race that helps in monitoring and observing bird species at Jeevidha
- Part of Shutterbugs as a lead photographer as a part of the core team.
- Had the opportunity to work with a diverse team of multidisciplinary professionals at MIT WPU Shutterbugs. ●
Conducted several bird walks and trails for people to create awareness on the importance of wildlife.

SPORTS
- Leading the MIT-WPU college Cricket team as a captain.
- Won the Flames Kurukshetra Cricket Tournament.
- Qualified for AIU West Zone Tournament.
- Having a great grip on team sports like cricket, basketball, volleyball , football.

ACHIEVEMENTS

- Received **Dr Vishwanath Karad Merit Scholarship, a 100% scholarship** for the entire duration of the course. ● **Winner** of **HackX MIT-WPU** 2024.

- Secured a grant of Rs. 1 lakh from **Dr Vishwanath Karad MIT-WPU, Pune** for further development of the project **ViziAssist**. ● Selected for the Pre-Finale Round of **KPIT Sparkle 2022** for the project **ViziAssist**; in the top 100 teams nationally. ● Qualified in the **Smart India Hackathon 2024** College Hackathon and entered as an official entry to the hackathon. ● Qualified the **Generative AI hackathon** conducted by **Worqhat**.

VOLUNTARY WORK

- Participated in several cleanliness drives organized by **Jeevidha** and **BNHS.**

- Part of the **Kshitiksha Foundation** NGO managing their social media as well as helping in fundraising campaigns