SUHANI KOLHATKAR

Student at COEP Tech University

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EDUCATION

BTech ,Mechanical Engineering
COEP Tch University
2023 - Present

BS Degree, Data Science and Applications
Indian Institute of Technology, Madras
2023 - Present

Secondary Education
Garware College

Primary Education
Abinav Vidyalaya

Projects

Developing an Eigen Vale Calculator

- Leveraging my passion for mathematics, I developed a JS program capable of calculating eigenvalues and the characteristic equation for a given 2x2 matrix.
- Integrating mathematical principles with coding expertise, I transformed the concept into functional code.
- Designed a user-friendly interface allowing users to input the matrix entries, upon confirmation, the program promptly outputs the eigenvalues and characteristic equation, demonstrating the intersection of my mathematical acumen and programming skills.

Website Development: www.validusedutech.com

- Created ValidusEduTech, a website from scratch using HTML, CSS, and JavaScript.
- Utilized GitHub repositories to store website pages, facilitating seamless updates and version control.
- Hosted the website using a domain name acquired from GoDaddy, ensuring accessibility and professional branding.
- Utilized JavaScript to write code that not only animated the particles but also applied principles from collision theory, demonstrating my proficiency in mathematics and its practical application in web development.

Audio Detection with Edge Impulse

- Developed a project utilizing Edge Impulse for audio detection, focusing on recognizing the keyword "hey Suhani".
- Trained a machine learning model using Edge Impulse's platform to accurately detect and predict the presence of the specified keyword within audio recordings.

Research Work

Synopsis Writing

- Presented a synopsis of research led by Johns Hopkins engineer SJ Claire Hur.
- Hur is developing a microfluidics device to collect and modify tumor cells from metastatic breast cancer patients' blood samples.
- This innovative approach aims to monitor cancer progression and personalize treatment plans, potentially reducing the need for invasive procedures.

Experience

June 2023 - July 2023, India, Maharashtra
Validus Analytics LLP
Internship

- Acquired foundational knowledge in machine learning theory during internship tenure.
- Familiarized myself with ml5.js for machine learning implementation and explored image classification techniques using ml5.js and p5.js, incorporating pre-trained models like MobileNet.
- Gained practical experience with essential Python libraries including NumPy, Matplotlib, Plotly, and Pandas, enabling data analysis, visualization, and manipulation tasks.
- Introduced to Streamlit for building interactive web applications and explored its functionalities.
- Gained exposure to Document Object Model (DOM) and utilized GoJS to create a raw interface for data visualization purposes.
- Initiated learning of jQuery for front-end development, expanding my skills in web development technologies.

May 2023 - Present, India, Maharashtra
STUDENTS' KATTA
Community Director

- Led 8 successful editions of community sessions as the Community Director.
- Developed strong managerial skills by effectively managing a team of individuals and coordinating their efforts towards common objectives.
- Acquired proficiency in digital marketing strategies to promote community events and engage with a wider audience.
- Produced compelling creatives to enhance the visibility and appeal of community sessions, demonstrating creativity and design skills.
- Demonstrated communication and oratory skills through delivering presentations, facilitating discussions, and engaging with community members.
- Managed the entire event lifecycle, from planning and agenda setting to execution and post-event evaluation.
- Responsible for deciding session agendas and managing prerequisites to ensure smooth event operations.
- Demonstrated financial management skills by overseeing budget allocation and expenditure for community events.
- Expanded personal and professional networks through active engagement with community members, guest speakers, and industry professionals.

Achievements

Classical Kathak Performer

- Participated in competition in which performed in group on a verse based on lord Pandurang and secured 3 rd place - 2017
- Participated in Group,Duet, Solo performance in KINKINI KIRTAN RASHTRIYA NRITYOTSAVA held in Gujrath. - 2018
- Secured First Class in Visharad Pratham - 2022

Links

- GitHub : https://github.com/SuhaniKolhatkar
- LinkedIn : https://www.linkedin.com/in/suhani-kolhatkar/