

Harshvi Shah

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EDUCATION

Dwarkadas J. Sanghvi College of Engineering, Mumbai University 2021 – 2025
Bachelor of Technology in Information Technology[CGPA:8.95] and Honors in DevOps

Mithibai College 2019 – 2021
HSC : 88 percent, MHT-CET : 97.2 percentile

EXPERIENCE

Virtual Lab Development | *Centre for Development of Advanced Computing* Dec 2023 – May 2024

- An immersive virtual dice simulator lab for CDAC, effectively teaching school students essential probability concepts.
- Includes a live graph that dynamically updates with each dice roll, comparing theoretical and calculated probability.
- Improved understanding by delivering an intuitive experience with fluid animations. **Tech Stack:** ReactJS, Material UI, Javascript.

DevOps Intern | Teknogeeks June 2024 – Present

- Implementing automation strategies to streamline project deployment processes and improve efficiency.
- Utilizing Docker for containerization and Jenkins pipelines for continuous integration and deployment (CI/CD).
- Using Kubernetes for managing containerized applications and collaborating with teams to integrate DevOps practices and enhance project workflows. **Tech Stack :** Docker,Jenkins, Kubernetes

Generating Social Media post from event description | Cerelabs Feb 2024 – May 2024

- Leveraged web scraping techniques to extract detailed event information for content creation.
- Experimented with BERT, GPT, and Gemini models to generate captivating captions and descriptions, enhancing engagement.
- Utilized Stable Diffusion for high-quality image generation and OpenCV to seamlessly overlay text on images, creating visually appealing social media posts. **Tech Stack:** Python ,OpenCV,Web Scraping, BERT,Stable diffusion,Gemini models

Teaching Assistant | Mahavira Coding Classes Oct 2023 – Dec 2023

- Instructed students in Python coding, web development, and foundational concepts of NLP and computer vision.
- Organized and crafted lesson plans, ensuring effective learning environment. **Tech Stack:** Python ,HTML ,CSS ,JavaScript

ACADEMIC PROJECTS

Media to Indian Sign Language Conversion [Project Link](#)

- A web application using Flask to facilitate the conversion of YouTube videos, audio files, or text content into Indian Sign Language (ISL).
- Employed youtube-dl for audio extraction and Whisper for transcript generation.
- After transcription, the text undergoes NLP processing to convert it into ISL grammar with an overall accuracy rate of 80%, leveraging an animation dataset comprised of 1000 SIGML files. **Tech Stack:** HTML,CSS,Javascript,Flask,Whisper AI

Global Terrorism report Dashboard using Power Bi [Project Link](#)

- Created a dynamic dashboard in Power BI for analyzing global terrorism incidents, featuring interactive visualizations for exploring incident data by region, time period, and incident type.
- Facilitates enhanced analytical capabilities, enabling users to make data-driven decisions and strategic plans based on comprehensive insights.

FinTrack- Finance Tracker [Project Link](#)

- Designed and developed a finance tracker website with a focus on expense tracking and financial management.
- Incorporated features for budget planning, expense categorization, and interactive charts to facilitate comprehensive financial analysis. **Tech Stack:** Vanilla Javascript ,HTML,CSS

TECHNICAL SKILLS

- **Programming Languages:** C++, C, JavaScript, SQL, HTML, CSS, Python, PHP, LaTeX ,Robotics (ROS)
- **Frameworks:** ReactJs, Tailwind CSS, Material UI, Bootstrap, Flask,Django
- **Tools & Platforms:** Github/Git,Power BI,Tableau, MySQL,PostgreSQL, Figma, Streamlit, Canva,Docker,Jenkins,MS Office
- **ML:**NLP, OpenCV, Neural Networks, TensorFlow, GAN, Numpy, Pandas, Matplotlib, SciPy, PyTorch, Seaborn, scikit-learn

RESEARCH WORK

Heart disease detection using ECG images: (Ongoing)

- A system achieving 92.11% accuracy using ensemble learning, particularly the Voting Classifier, for predicting heart disease from ECG images. Integrated predictions from multiple models for enhanced accuracy and robustness.
- The dataset includes ECG images sourced from a publicly available repository, categorized into Normal (3408 images), Myocardial Infarction (2880), Abnormal Heartbeat (2796), and History of Myocardial Infarction (2064), processed for classification tasks. Employed advanced language models like GPT and Gemini for summarizing ECG findings, providing clear and concise information crucial for patient understanding and diagnosis. **Tech Stack:** NLP, Streamlit, Python, Ensemble Learning models, GPT/Gemini models

POSITION OF RESPONSIBILITY

Training and Placement Coordinator Feb 2024- Present

- Streamlined communication channels and meticulously organized comprehensive placement and training programs, ensuring tailored support for students throughout their interview preparation journey.

Junior Mentor at DJ InIT.AI - AI/ML research Club Jan 2023- Present

- Engaged in writing research papers and actively contributing to outsourced projects. Organized and managed datathons, fostering collaborative learning and problem-solving skills among participants. Conducted lectures for junior members on Git-GitHub and Python, facilitating skill development and knowledge enhancement.

Robotics Head at Djs Antariksh - Martian Rover and Drone Development Team May 2022- Present

- Led development efforts integrating Arduino hardware with ROS and Python for optimized functionality and improved GPS accuracy.Secured 8th place in the International Rover Challenge (IRC) and 2nd place in the European Rover Challenge (ERC) remote competition, playing a pivotal role as navigation controller.