Bhavya Shah

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EDUCATION

Pandit Deendayal Energy University   **3rd Year**
Gandhinagar, Gujarat, India   *CGPA: 9.34*
R.S.M. Poonawala Sarvajanik Experimental School   **2021**
Surat, Gujarat, India   *Percentage: 89.60*

TECHNICAL SKILLS

Programming Languages: Python, C++, Carbon, SQL, CSS, HTML, Java
Libraries and Tools: PyTorch, Sklearn, Pandas, Numpy, OpenCV, Git, Docker
Soft Skills: Leadership, Teamwork and work ethics, Project management
Areas of Interest: Deep Learning, Machine Learning, AI for healthcare, Revolutionize technology, Genrative AI, Interested in contributing to the Vision Zero project.

WORK EXPERIENCE

Artificial Intelligence intern
Ernst and Young Global(LLP), Gujarat, India   *Present*

- Developed OCR technology for automatic extraction of container and truck number plates data, integrated with IoT sensors for precise time logging and performance analysis, enhancing supply chain visibility and sustainability.
- Led initiatives in integrating cutting-edge Generative AI and Large Language Models (LLMs) to pioneer advancements in natural language processing, leveraging advanced technologies to drive groundbreaking AI applications.

Machine Learning intern
Nullclass Technology Private Limited, Bangalore, India   *March 2024 - May 2024*

- Successfully executed five tasks at Null Class, demonstrating proficiency in an emotion detection project with a focus on diverse methodologies and AI applications.
- Tasks included comparative analysis of time-series and image-based approaches, dynamic model adaptation, cultural context integration, multi-context model development, and real-time emotion detection system implementation, showcasing comprehensive skills in AI and ML.

Machine Learning and Artificial Intelligence intern
Nexus info, Tamilnadu, India   *May 2024 - June 2024*

- Developed an interactive chatbot in Python using tkinter, integrating API calls for weather updates, news retrieval, and language translation, with additional features including joke generation, date retrieval, and mathematical operations.
- Implemented a context-aware Q-A admission chatbot using Flask and integrated it with memory management for personalized responses based on user interactions, enhancing user engagement and experience.

PROJECTS

- **Revolutionizing Healthcare: Cutting-Edge Medical Image Classification**, Developed two CNN models for classifying skin and lung cancer images using Kaggle datasets. Gathered cancer-related information through web scraping. Created a user-friendly frontend with Flask, hosted on a local server, enabling users to classify cancer images and access information about cancer types and treatments.
- **Comparative Analysis of Clustering**, Evaluated Hierarchical vs. Spectral Clustering on diverse dataset sizes using Python, data analysis, visualization tools, and ML libraries (SciPy, scikit-learn, Matplotlib). Assessed performance with Silhouette Score, Davies-Bouldin Index, and Adjusted Rand Index to determine the better performing method.
- **Verbal Linguists**, Developed a platform for speech-to-text transcription and translation for Indian languages (Hindi, Urdu, Bengali, Punjabi, Indian English). The system processes native audio input, reduces noise, enhances voice, recognizes the language, transcribes to native text, translates to English text, and provides English audio output, facilitating cross-language communication

PUBLICATION

- Published "Adapting Grey Energy Models for Demand Forecasting Across Diverse Datasets" in the International Conference on Advances in Sustainable Development, Innovation, and Green Technology, hosted by Assam Downtown University, Guwahati, Assam, 2024.