BHAVYA SHAH

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B.Tech
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EDUCATION

- **PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR** — *3rd Year*
  B.Tech CSE — CGPA: 9.46

- **R.S.M. Poonawala Sarvajanik Experimental School** — *2021*
  Gujarat, Gujarat — Percentage: 89.60

- **R.S.M. Poonawala Sarvajanik Experimental School** — *2019*
  Gujarat, Gujarat — Percentage: 94.33

PERSONAL PROJECTS

- **Verbal Linguists** — *November 2023*

  Speech to text transcription for Indian languages

  - Tools & technologies used: IndicWav2Vec, IndicTrans, Torchaudio, Hugging Face Transformers, Spacy, PyAudio, Pydub, SpeechBrain
  - Audio preprocessing, model fine-tuning, transcription, and speech conversion facilitate multilingual communication, accessibility, and content localization.

- **Comparative Analysis of Clustering** — *Feb 2023*

  Hierarchical vs. Spectral Clustering: Multi-Metric Evaluation Across Diverse Dataset Sizes

  - Tools & technologies used: Python, Data Analysis, Data Visualization and ML Libraries (SciPy, scikit-learn, Matplotlib,etc.)
  - Used Metrics and evaluation methods such as Silhouette Score, Davies-Bouldin Index and Adjusted Rand Index for clustering performance evaluation

- **GREY Model** — *Feb 2024*

  Forecasting energy consumption value for different datasets.

  - Tool used: Python(Math library)
  - A pivotal model within grey theory is the GM (1,1) model, which represents a first-order grey model for single-variable forecasting. This model has exhibited its efficacy by yielding high-precision outcomes even with a limited dataset

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C++, SQL, MATLAB, CSS, HTML, Java
Developer Tools: Git-Github, Visual Studio
Frameworks: Tensorflow, Keras, Cuda, Matplotlib, Pandas
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.

CERTIFICATE

- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

- Neural Networks and Deep Learning

- Sequence Models

SOCIAL INTERNSHIP

- **PRAYAS -Team Plant Us:** — *July 2022*

  Summer Intern

  - Engaging with the organization's team to promote awareness regarding animals and rescued companions.

Extra-CURRICULAR

- Participanted in the Samsung Solve for Tomorrow competition sponsored by Samsung. *July 2023*

- I contributed to the energy forecasting project by collaborating with the Head of Department (HOD) using TensorFlow and Keras to forecast solar energy using various deep learning models like CNN-LSTM and Bidirectional LSTM, thereby improving total power generation prediction for a solar plant. *September 2023*

- I participated in a one-week workshop generously sponsored by GUSCOST and SCRS, which focused on the utilization of Artificial Intelligence (AI) and Machine Learning (ML) techniques in the realms of Biomedical Signal Processing and Computer Vision (BSPCV). *July 2023*