

BURRA SAHARSH

Sophomore at IITGN

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EDUCATION

Bachelor of Technology in Computer Science Engineering Indian Institute of Technology Gandhinagar	August 2023 - Present	CPI:9.09
Central Board of Secondary Education SR Prime School	2021 - 2023	Percent%:96
State Board of Secondary Education National High School	2021	Percent%:100

SKILLS

Programming Languages

- Python, C, C++

Tools

- MySQL, Flask, CSV

Libraries

- Numpy, Pandas, Scikit-learn, Pytorch, OpenCV, Tensorflow, Matplotlib

EXPERIENCE

Coursework on Machine Learning

- Successfully completed a comprehensive course on Machine Learning
- Worked on four mini-projects as part of the coursework, demonstrating practical application of concepts

Key Projects

Activity Recognition Using Machine Learning

- Collected real-time accelerometer data to develop a model that detects activity like sitting ,walking etc.
- Techniques Used: Data preprocessing, feature engineering, and supervised learning algorithms.
- Tools: Python, Scikit-learn, Matplotlib.

Text Generation Using MLP

- Implemented a next-word prediction model using a Multilayer Perceptron on the Shakespeare dataset.
- Developed a Streamlit app for user interaction and visualized embeddings using t-SNE.
- Tools: Python, Streamlit, t-SNE, Matplotlib.

Classification of Dolphins and Snakes

- Designed and compared performance of various VGG models for binary image classification.
- Explored transfer learning approaches with VGG16 and VGG19 to improve accuracy.
- Tools: Python, TensorFlow/Keras, OpenCV.