R V Nikhil Sai

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Education

National Institute of Technology Puducherry, B.Tech in Electronics and Communication Engineering	2022 – 2026
Narayana Junior College , Vizianagaram , Intermediate.	2020 – 2022
Sri Chaitanya High School , Vizianagaram , SSC.	2019 – 2020

Experience

Design of various filters, Karaikal — July 2023 – Nov 2023

- Focused on ECG signal analysis.
- Studied ECG signals and filtering techniques.
- Designed filters for noise cancellation in ECG signals.

HMI Engineering Services , Visakhapatnam — May 2024 – June 2024

- Machine Learning using Python
- Studied and implemented various machine learning algorithms like Linear Regression , Logistic Regression , SVM, Decsion Tree etc.

Projects

Drowsy Driver Detection system — Jan 2024 - April 2024

- Developed detection system for identifying Drowsy Driver.
- Used Computer Vision for pre-processing the video input.
- Used CNN architecture for training the model on images of closed and open eyes
- Tools Used: Python , Computer Vision , CNN

Mental Health Support Chat bot — Jan 2025 - April 2025

- Used NLP for pre-processing text data and byte-pair encoding for creating tokenizer and decoder only transformer architecture for training the model.
- Tools Used: NLP , Python , Transformers.

Technologies

Languages: Python , JavaScript

Technologies: HTML , CSS , Jupyter Notebook , Matlab , Visual Studio.