Reddy Sai Nivas C

Bengaluru, Karnataka

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Profile Summary

- Passionate developer with experience building responsive and dynamic frontend applications using React.js, CSS, and modern UI/UX practices.
- Skilled in developing ML solutions using Python, scikit-learn, and deep learning frameworks; experienced in real-world projects.

Relevant Coursework

• Data Structures	• OOP	• DBMS	• Web Technologies	• Machine Learning
• Operating System	• Computer Networks		• Python Programming	• Data Visualization

Experience

cHeal, PES University – Research Intern **June 2025 – July 2025**

- Worked on REM sleep stage classification using raw EEG, EOG, EMG, and ECG data from .edf files, applying signal preprocessing techniques like bandpass filtering, ICA, and artifact removal.
- Built machine learning pipelines to classify sleep stages, leveraging Python, NumPy, SciPy, and MNE for data handling and scikit-learn for model training and evaluation.

Airobosoft - Ai & ML Intern **Jan 2024 – Apr 2024**

- Developed a credit card fraud detection system using logistic regression and supervised machine learning models, working with real-world transactional datasets to identify anomalies.
- Built a smart home automation prototype using eye gestures and face recognition, leveraging OpenCV, dlib, and pyttsx3 to control home appliances through intuitive eye-based interactions.

Projects

Eye Drowsiness Detection System | *Python, OpenCV, dlib, pyttsx3*

- Detected driver drowsiness using eye aspect ratio (EAR) from facial landmarks.
- Triggered real-time audio alerts to prevent fatigue-related accidents.

REM Sleep Stage Classifier | *Python, MNE, NumPy, SciPy, scikit-learn*

- Classified REM and non-REM sleep stages using EEG, EOG, EMG, and ECG signals from .edf files.
- Applied signal preprocessing (bandpass filtering, ICA), extracted features, and trained ML models.

Smart Home Automation using Eye Gestures | *Python, OpenCV, dlib, pyttsx3*

- Controlled home appliances through eye gestures and face recognition
- Built a real-time interface enabling hands-free control for accessibility

Education

P.E.S UNIVERSITY **2024 – Present**
Bachelor of Technology in Computer Science – GPA : 8.29

S.J. POLYTECHNIC (S.J.P) **2021 - 2024**

Diploma in Computer Science – GPA: 9.85

Achievements

- 30th rank in DCET
- Awarded with Canara Bank Merit Scholarship
- Assisted in NBA Accreditation for SJP-CSE
- Reached CIE Ignite Stage-2 – A startup incubator