ARIVANANTHAN M

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EDUCATION

Bachelor Of Technology   **CGPA - 7.82**
Amrita Vishwa Vidyapeetham,Coimbatore   2022 - Present
- Specialization in Artificial Intelligence

High School Diploma   **SSLC - 84%**
Thamarai International School,Thanjavur   **HSC - 80%**
- Central Board of Secondary Education(CBSE)   2008 - 2022

PROJECTS

NeuroScribe   GitHub/NeuroScribe
- Collected EEG data using the OpenBCI Cortex IV helmet as participants thought of letters.
- Processed brain signals with machine learning models to predict the intended letter.
- Integrated a CMC plotter to write the predicted letter and a speaker to vocalize it.

Clip Crunch - Youtube Video Summarizer   GitHub/ClipCrunch
- Developed a website that summarizes YouTube videos and provides a video preview.
- Extracted audio from videos using a Python script and stored it in an AWS S3 bucket.
- Used AWS Transcribe to convert speech to text and Bedrock for text summarization.
- Integrated the summarized content into the website for user-friendly access.

Multimodal Insomnic Prediction   GitHub/Insomnia
- Integrated EEG, EMG, EOG, and ECG signals to classify individuals as insomniac or not
- Used Machine Learning with early and late fusion techniques for improved classification.
- Implemented Explainable AI methods (LIME, SHAP) to identify key features for diagnosis.

POSITION OF RESPONSIBLITY

President Of Sadhana Club
Amrita's cultural club, where I led the community with initiatives fostering creativity and unity.

Class Representative
Effectively liaised between students and faculty, and facilitated communication and feedback.

Facilitator
Certified as a instructor for the ML Bootcamp '24 at Amrita School of AI, demonstrating expertise in Python, Machine Learning, and Deep Learning.

CERTIFICATIONS

Certified Oracle Cloud Infrastructure 2024 Generative AI Professional with expertise in building and deploying Generative AI solutions like chatbots and content generation applications on OCI.

Machine Learning With Python - FreeCodeCamp

SKILLS

Technical Skills:
- Python, HTML, CSS, Java, C, SQL, Matlab, React JS

Soft Skills:
- Team Collaboration, Organizational Skills, Leadership

Areas of Expertise:
- Machine Learning, Deep Learning, Full Stack Development