AIYYAPPAN M R

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Chennai, Tamil Nadu - 600073, India

EDUCATION

Amrita Vishwa Vidyapeetham	GPA - 8.09
Bachelor Of Technology CSE(AI)	*Sept. 2022 – Jun 2026*
Alwin Memorial Public School	SSLC - 80 , HSC - 87
High School (CBSE)	*Sept. 2010 - Jun 2022*

TECHNICAL SKILLS

Areas of Interest : ML/DL application, Full Stack Development, OOPS, DBMS Python

Languages : Python, Java, HTML, CSS, JavaScript, SQL, C, Matlab

Technologies/Frameworks: Streamlit, Machine Learning, Deep Learning, OpenCV, Roboflow, SciPy, Linux, MySQL, GitHub, Git, Azure, AWS

PROJECTS

Multimodal Insomnic Prediction   GitHub|Insomnia Detection

- **Developed Insomnia Detection Framework :** Leveraged EEG, EMG, EOG, and ECG signals with advanced preprocessing and feature extraction techniques, capturing key physiological traits of insomnia.
- **Achieved High Classification Accuracy :** Implemented early fusion with Random Forest and MLP classifiers, achieving 95% accuracy, outperforming late fusion methods.

Clip Crunch - Youtube Video Summarizer   GitHub|Clip Crunch

- **Developed AI-Powered Video Summarization Tool :** Built Bardx.ai, an AI-driven web application leveraging AWS Transcribe and AWS Bedrock to transform YouTube video audio into concise text-based summaries.
- **Designed Scalable Application Architecture :** Utilized Python Flask for backend operations and HTML, CSS, JavaScript for frontend, integrating URL validation and asynchronous processing for seamless and efficient user experience.
- **Enhanced Media Accessibility :** Addressed challenges like transcription accuracy and processing speed while exploring multilingual support and advanced NLP techniques to improve content accessibility and usability.

Intrusion Detection System   GitHub|Intrusion Detection System

- **Combating Cybersecurity Threats :** Developed a project to detect malicious Domain Generation Algorithms (DGAs) in real-time network traffic using machine learning techniques.
- **Feature Engineering and Dataset Curation :** Extracted 48 statistical and lexical features, including dictionary word presence, pronounceability, and entropy, using data from Alexa's top 1 million domains and DGA360 Netlab.
- **Real-Time DNS Flagging :** Integrated an open-source codebase with Spacy for real-time detection and flagging of DGAs in network traffic.

STRENGTHS

- Teamwork
- Problem-Solving
- Creativity
- Adaptability
- Time Management
- Critical Thinking

CERTIFICATION

- Oracle Gen AI Certification
- Supervised Machine Learning: Regression and Classification- Coursera