

Vithya Sri R

AI & Data Science Graduate

Portfolio | HackerRank | Leetcode

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GitHub Profile

LinkedIn Profile

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science

MEPCO Schlenk Engineering College, Sivakasi

2021-2025

CGPA: 7.8+

PROJECTS

RAG Chatbot with MCP : LLM | Link

August 2025

Built a Retrieval-Augmented Generation chatbot combining LLMs

- Designed a chatbot pipeline that required data chunking, and embedding vector creation for document retrieval for both structure and unstructured data (Json, pdf, text ,etc..).
- Solved challenges with tokenization and vector space retrieval by applying semantic search and overlapping chunking for context-aware responses for improved chatbot responses.
- Evaluated performance using ROUGE scores, improving interaction efficiency by 80% with Streamlined project workflow.

Text to Speech Synthesis with GenAI (Gemini API) : IOT | Link

August 2024

Built a text to speech chatbot app integrating OpenAI Gemini API with Esp32 IOT model .

- Integrated open ai (gemini) for audio to text(chatbot) and esp32 for text to speech conversion .
- Esp32 Module with IC142 help to synthesis the speech poutput without noise error using speaker .
- Chatbot gui using ArduinoIDE for project workflows, enhancing overall efficiency by 75%.

Best Path Finding : Machine Learning | Link

August 2023

A demo of a genetic algorithm with a multilayer perceptron to predict the next movement

- Utilized machine learning algorithms to develop an intelligent system for determining the optimal path for a Car.
- To optimize navigation efficiency Feed Forward Neural Network was adapt to changing conditions and got 95%.
- JavaScript project workflows, enhancing overall efficiency by 98%.

HACKATHON ACHIEVEMENTS & INTERNSHIP EXPERIENCE

Pedestrian Safety in ADAS

Aug 24 - May 2025

Techno Innovate

Research + Hackathon

- Won 2nd price with a 3000 reward for an Hardware innovation challenge with our idea using neural networks.
- Published a conference paper about the research to enhance pedestrian safety in Advanced Driver Assistance Systems.

Medicinal Leaves Identification

Feb 2023

Smart India Hackathon

Hackathon

- Semi-finalist in SIH 2023 for deploying a real world problem statement using DeepLearning methods.
- Developed a real-time mobile application using KivyMD, achieving 95% accuracy across 10,000+ images.

Technical Content Writing

Jan - Aug 2024

GeeksforGeeks

Freelance

- Published 5+ articles on topics related to machine learning, deep learning, and SQL Server.
- Specialized in explaining complex ML models, such as SVM, CNN, and LSTM.

Web Development Intern

April-2024

Internship

Octanet

- Done 5 small web application similar to HTML/JS portfolio , Django Renatal Vehicle application and so on.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Java, JavaScript

Tools: API Interfacing, Hugging face , N8N automation , Git , CI/CD pipeline , Linux

AI & ML: F1 Score, Accuracy, Transformers, LLM, PyTorch, TensorFlow, NLTK

Frameworks: ReactJs , Streamlit , KivyMD, Django , LangChain

Big Data & Databases: Apache Spark (Pyspark) , Hadoop, MongoDB, Firebase, Relational Database, Neo4j, PL/SQL

Position of Responsibility: NCC Cadet (C - Certified), Google Club Member (21-25), NSS Volunteer(21-25)

Visualization : Tableau , Power BI , Weka , Orange , ETL

CERTIFICATIONS

| Link

Oracle Cloud AI Infrastructure | Oracle

Aug 2025 - Oct 2025

Big Data Computing , Python , Java | NPTEL - Elite

Oct 2022 - May 2024

DSA & Algorithms, NoSql Databases | Infosys

Jan 2024 - Aug 2024