

# 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.

### Cricket Data Analysis using Pyspark : Big Data | Link

December 2024

Built predictive models using PySpark's MLlib to forecast match outcomes, player performance

- The Cricket Analysis using PySpark with Streamlit project demonstrates the application of big data technologies and interactive web development.
- Analyzed key performance metrics such as total runs, wickets, batting and bowling averages, strike rate.
- Additionally, advanced machine learning techniques, such as Random Forest classifiers, are employed to predict match results and identify patterns in player performances.

### 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