

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science	2021-2025
MEPCO Schlenk Engineering College, Sivakasi	CGPA: 7.8+

PROJECTS

RAG Chatbot with MCP : LLM Link	August 2025
Built a Retrieval-Augmented Generation chatbot combining LLMs	
<ul style="list-style-type: none">Designed a chatbot pipeline that required data chunking, and embedding vector creation for document retrieval for both structure and unstructred 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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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 ACHEIVEMENTS & INTERNSHIP EXPERIENCE

Pedestrian Safety in ADAS	Aug 24 - May 2025
Techno Innovate	Research + Hackathon
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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