

Sembiyan S

Mobile: +91-6374413840

Email: sembiyansundaramoorthy@gmail.com

Github : [sembiyan-s](https://github.com/sembiyan-s)

LinkedIn: <https://www.linkedin.com/in/sembiyan-data>

Thanjavur, Tamil Nadu, India

PROFILE SUMMARY

With masters in computer science , I am looking for an opportunity to begin my IT career. Though I am a graduate , I learnt technologies by my own using udemy courses, Youtube videos and I am now confident enough to say that I can upskill any technology in short time and bring value to the team that I work. I prefer to become a **Generative AI Engineer** since I am upskilling on big data technologies and Azure cloud now.

SKILLS:

- Front-End Development: HTML5, CSS3, JavaScript
- Back-End Development: Python
- GenAI Frameworks : LangChain (RAG) , LangGraph (Agents), LangSmith .
- Cloud : Microsoft Azure (Virtual Machine (VM), Container Instances, Azure App services, Function Apps, Azure Storages)
- DevOps : Docker (Images , Containers)
- Databases: MySQL, MongoDB
- Networking: Computer Networks, Bridges, Routers, Switches,
- Tools & Platforms: Git, Linux, Visual Studio Code
- Soft Skills: Team collaboration, Problem solving, Fast learner

EDUCATION

MCA – Master of Computer Applications

Periyar Maniammai Institute of Science and Technology, Thanjavur

Year: 2023 – 2025 | CGPA: 8.5 | First Class With Distinction

BCA – Bachelor of Computer Applications

AVVM Sri Pushpam College, Thanjavur

Year: 2020 – 2023 | CGPA: 7.8 | A Grade

PROJECTS

1. AI-powered SQL Query Generator Application Using RAG

Tech Stack : Python ,LangGraph , MySQL , RAG ,Chroma ,Gemini API, Embedding.

- Connect Database and Get Schema from MySql Database.
- Get the user user question , and Extract the context .
- Embedding the Conetext from retrieved similar results from database.
- Create a vector Database to stores the embedded vectors .
- Create a query generation function ,pass the user question , the retrieved context and Database schema ,table schema are packed as Prompt Template.
- After passing the Prompt Template The LLM will be Execute the query Generation .

2. AI-Powered Chat Application

Tech Stack: Python , Streamlit ,and Gemini API

- Created an intelligent chat app that responds contextually using AI.
- Integrated Gemini API for natural language understanding.
- Designed a simple front-end for real-time interaction.

CERTIFICATIONS & COURSES

- Python Programming – Guvi (Aug 2023)
- Front-End Development – SoloLearn (Oct 2024)
- Microsoft Azure – AZ-204 (Preparing)

ACHIEVEMENTS & EXTRA-CURRICULARS

- Participated in shotput, discuss throw, javelin throw events at college level
- Organized yearly group trips to nature and trekking spots
- Recognized for project presentation during tech fests

ACADEMIC HIGHLIGHTS

- Final year MCA project selected for institute-level showcase
- Built functional applications from scratch during college (e-commerce tracker)
- Consistently scored top 5 in programming-related coursework

PERSONAL DETAILS

- Date of Birth: 14th Dec 2002
- Languages: Tamil (Native), English (Good working proficiency)
- Address: 3/402, South Street, Chithirakudi, Budalur (TK), Thanjavur – 613602.