

Sivanesh S

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PROFESSIONAL SUMMARY

- Software Developer with ~2 years of experience building AI-powered applications, RAG-based chatbots, and scalable full-stack solutions. Skilled in Python, FastAPI, Angular, and OpenAI APIs, with hands-on expertise in LLM integration, prompt engineering, and end-to-end ETL pipeline.

SKILLS

- **Programming Languages:** Python, Java, JS/TS
- **AI & Machine Learning:** LLM Integration, OpenAI APIs, Prompt Engineering, Retrieval-Augmented Generation (RAG), Transformer Models, NLP, Exploratory Data Analysis (EDA), MCP, Hugging Face.
- **Frameworks:** FastAPI, Flask, Angular, TensorFlow, LangChain, Pandas, Scikit-learn, SQLAlchemy.
- **Databases & Storage:** MSSQL, MongoDB, ChromaDB, Azure blob.
- **Tools:** TortoiseSVN, Git, Azure DevOps, Docker.
- **Other Skills:** ETL, Scripting, Microservices, A/B Testing, CI/CD, Client liaising.

EXPERIENCE

Software Developer

Aug 2023 – Present

AI-Powered Apps, Chatbots, R&D

Newdream Data Systems

- Developed a scalable RAG-based chatbot that processed over 3,000+ insurance documents, using OpenAI GPT models, embedding generation, and ChromaDB for semantic search with context-aware responses.
- Engineered an end-to-end ETL pipeline using Azure Blob Storage, with automated document ingestion, chunking, embedding creation, and SQL-based metadata logging, ensuring efficient and reliable data processing.
- Built and deployed a production-grade backend with FastAPI, leveraging prompt engineering, fallback logic, and Azure DevOps CI/CD pipelines to automate delivery, improve response accuracy, and maintain high system availability.

Software Intern

Oct 2023 – Apr 2023

Webapps, Integration

Dextraysys

- Developed and enhanced web applications using Angular for frontend and Python Flask for backend, contributing to improved UI responsiveness and API performance.
- Integrated third-party services to automate email workflows, streamlining communication processes and reducing manual effort.

EDUCATION

Madras Institute of Technology (MIT), Anna University | CGPA: 8.6

Chennai, India

Masters in Computer Applications

Mathematics, Statistics, Data Science, AI&ML

09/2023 - 06/2025

Bishop Heber College | CGPA: 8.4

Trichy, India

Bachelors in Computer Science

Data Structures and Algorithms, Object-oriented Programming

06/2020 - 05/2023

PROJECTS

I-GET IT | *Deep Learning, OpenCV, Tensorflow*

- Developed a deep learning model using TensorFlow and OpenCV, leveraging CNNs to recognize sign language gestures and translate them into text in real-time.
- Significantly improved gesture accuracy by 89 percent and response time for seamless communication in real-time settings.

Agri Connect | *Flask, Angular, SQLAlchemy*

- Built a full-stack platform with Flask and Angular to connect farmers with consumers for agricultural product purchase and selling.

CERTIFICATIONS

- **Deeplearning.ai** – Langchain for LLM application development
- **NPTEL** - Data Structures and Algorithms Design, IIT Kanpur