

Suganraj S

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EDUCATION

St. Joseph's Institute of Technology

Chennai, India

Bachelor of Engineering in Computer Science Engineering; CGPA: 8.71/10

Aug. 2022 – Expected Apr. 2026

EXPERIENCE

Software Engineering Intern

June 2025 – Present

Zuntra Digital

Chennai

- Developed recommendation system for dating mobile application using content filtering algorithms
- Built scalable backend services to support user matching and personalization features
- Optimized algorithm performance to handle large user datasets for upcoming product launch

AI/ML Intern – LLM STEP Program

Jan. 2025

CDW

Chennai

- Implemented NLP pipelines with preprocessing and embeddings in Python, improving text classification accuracy by 20%
- Built IMDb sentiment analysis model using DistilBERT, boosting sentiment prediction performance by 25%
- Engineered retrieval-augmented code generation system leveraging Mixtral-8x7B LLM, RAG, and LangChain Agents, improving response quality by 35% and applied advanced prompt engineering techniques to optimize LLM interactions

PROJECTS

Agriculture Enhancement Platform | Python, Generative AI, LangChain, CNN, Streamlit

- Built farmer-to-customer platform with AI chatbot using GroqCloud Mixtral 7B and LangChain for agriculture queries
- Designed plant disease prediction with CNNs and integrated real-time weather and government APIs

Serverless AI Model Deployment with CI/CD | Machine Learning, NLP, Azure Functions, Streamlit

- Developed scalable NLP pipeline for sentiment analysis and classification achieving 89% accuracy using Scikit-learn
- Deployed models with serverless Azure Functions and CI/CD pipelines, reducing deployment effort and ensuring cost efficiency

Code Generator System using LLMs and RAG | Llama, RAG, LangChain, Chromadb, Streamlit

- Built retrieval-augmented code generation workflow using Llama, LangChain Agents, and advanced prompt engineering
- Integrated Chromadb vector database and Groq API, enabling efficient similarity search and optimized LLM responses

ACHIEVEMENTS

Finalist, IISC Open Hack 2024 – Top 13 of 1300+ teams, recognized by a Google Scientist

Winner, BLAZE A TRIAL Hackathon – 1st place for building LegitMart, an AI-powered recommendation platform

3rd Place, HackaIndia National Hackathon – Advanced to the national finals in Delhi

Winner, Hack-O-Holics 4.0 – Secured 1st place in a national-level IEEE hackathon

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks & Libraries: LangChain, Scikit-learn, Pandas, NumPy, Streamlit

AI/ML: Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), Large Language Models (LLMs)

Tools & Platforms: AWS Cloud, Chromadb, Github, FastAPI

Core Concepts: Data Structures and Algorithms, Object Oriented Programming, Database Management Systems

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C02) | Microsoft Azure AI-900 | NPTEL Python for Data Science (90%)