

# Suganraj S

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## EDUCATION

<b>St. Joseph's Institute of Technology</b> <i>Bachelor of Engineering in Computer Science Engineering; CGPA: 8.71/10</i>	Chennai, India Aug. 2022 – Expected Apr. 2026
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## EXPERIENCE

<b>Software Engineering Intern</b> <i>Zuntra Digital</i>	June 2025 – Present Chennai
<b>AI/ML Intern – LLM STEP Program</b> <i>CDW</i>	Jan. 2025 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

• 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

<b>Agriculture Enhancement Platform</b>   <i>Python, Generative AI, LangChain, CNN, Streamlit</i>	
• 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	
<b>Serverless AI Model Deployment with CI/CD</b>   <i>Machine Learning, NLP, Azure Functions, Streamlit</i>	
• 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	
<b>Code Generator System using LLMs and RAG</b>   <i>Llama, RAG, LangChain, Chromadb, Streamlit</i>	
• 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

<b>Finalist, IISC Open Hack 2024</b> – Top 13 of 1300+ teams, recognized by a Google Scientist
<b>Winner, BLAZE A TRIAL Hackathon</b> – 1st place for building LegitMart, an AI-powered recommendation platform
<b>3rd Place, HackaIndia National Hackathon</b> – Advanced to the national finals in Delhi
<b>Winner, Hack-O-Holics 4.0</b> – Secured 1st place in a national-level IEEE hackathon

## TECHNICAL SKILLS

<b>Languages:</b> Python, SQL
<b>Frameworks &amp; Libraries:</b> LangChain, Scikit-learn, Pandas, NumPy, Streamlit
<b>AI/ML:</b> Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), Large Language Models (LLMs)
<b>Tools &amp; Platforms:</b> AWS Cloud, Chromadb, Github, FastAPI
<b>Core Concepts:</b> 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%)