

# SURESH KANNAN

Chennai, Tamil Nadu • sureshdharma0916@gmail.com • linkedin.com/in/suresh-kannan-77913424a •  
https://github.com/Sureshkannan0919

---

## AI & Software Engineer

B.Tech in AI & Data Science (2025) with specialized expertise in developing production-ready AI systems and advanced data processing solutions. Proficient in building intelligent platforms, including RAG-powered recommendation engines and multi-agent architectures using LangGraph and Google Gemini. Skilled in Python, PyTorch, FAISS, Django, and modern AI frameworks, with hands-on experience in agentic AI, autonomous agent orchestration, and end-to-end solutions integrating NLP, real-time web applications, and seamless database systems.

## WORK EXPERIENCE

---

### Beez Innovation Labs

06/2024 - 12/2024

#### Software Trainee

- Contributed to AI team initiatives, working on diverse AI projects to solve real-world business challenges
- Gained extensive experience in Natural Language Processing, Retrieval-Augmented Generation (RAG), Machine Learning, and Large Language Models (LLM)
- Collaborated on production-ready AI solutions and learned industry best practices for AI system development

## EDUCATION

---

### Bachelor of Technology in Artificial Intelligence & Data Science

Prince Dr K Vasudevan College of Engineering and Technology • GPA: 8.3/10.0

10/2021 - 05/2025

## PROJECTS

---

### Agentic RAG - Intelligent Information Retrieval System

- An advanced Retrieval-Augmented Generation system that combines LangGraph orchestration with intelligent query processing.
- Unlike traditional RAG systems, this agentic approach evaluates document relevance, rewrites queries when needed, and combines multiple information sources for optimal results.
- Features include ChromaDB vector storage, web search integration via Tavily, and Google Gemini 2.0 Flash for generation.

### Multi-Agent Customer Support System

- Developed sophisticated AI customer service platform with hierarchical multi-agent architecture using LangGraph
- Implemented five specialized agents working collaboratively to deliver human-like customer interactions
- Designed intelligent agent handoff system for seamless conversation flow

### DataAssist - Natural Language Query & Analysis Tool

- Built Django web application converting natural language into SQL/NoSQL queries using Google Gemini AI
- Integrated multiple database connections (MySQL, PostgreSQL, MongoDB) with file upload capabilities
- Implemented instant data visualization features for enhanced user experience

## SKILLS

---

**AI & Data Science:** Agentic AI, Natural Language Processing (NLP), Large Language Models (LLM), Multi-Agent Systems, Retrieval-Augmented Generation (RAG), Machine Learning, Data analysis, Data visualization

**Programming Languages:** Python, TypeScript, SQL

**Frameworks & Libraries:** LangGraph, LangChain, PyTorch, Transformers, FAISS, Pandas, Llamaindex, FastAPI, Django, HuggingFace, Tensorflow, OpenCV

**Tools & Databases:** Azure Autogen, Cursor, Docker, AWS, Firebase, Google Cloud Platform (GCP), PostgreSQL, MongoDB

**Specialized Technologies:** CUDA, GPU Computing, Vector Databases, REST APIs

## AWARDS & SCHOLARSHIPS

---

### Academic proficiency

06/2023

Prince Dr K Vasudevan college of engineering and technology

## CERTIFICATIONS

---

### AI

Nvidia

### Data analytics

IBM

### SQL

kaggle