

Dr Suresh Kannaiyan Ph.D.,
AI, ML & Gen AI Developer
sureshk.naga@gmail.com
+91 82200 33325

A dynamic professional with over 9 years of industry experience in AI, Machine Learning, Computer Vision and Gen AI. Passionate about developing innovative and impactful products for clients across Clinical, Insurance and Education sectors, delivering practical solutions that drive business value and technological advancement.

Work Experience

AI, ML & Gen AI | Co-founder
Menmozhi Technologies Pvt Ltd, Trichy
September 2021 to Present

Key Achievements & Responsibilities:

1. Insurance Claim Recommendation Engine

Developed using BERT-based models and deployed on AWS Cloud, this engine automates the insurance claim processing workflow by providing smart recommendations for claim approval, rejection, or further review, significantly improving decision accuracy and reducing manual effort.

2. RAG-Based Knowledge Assistant

Integrated a Retrieval-Augmented Generation (RAG) assistant to support insurance agents by enabling quick retrieval of contextual information from large document repositories.

3. Vennila AI – LLM-Based Candidate Interview Platform

Developed a web application using PostgreSQL, Python Flask REST API, ChatGPT, and Azure Cloud, designed to automate candidate interviews, generate smart questions, and provide evaluation insights.

4. Kids Learning Assistant

Built an interactive AI-driven web app that assists children (Grade 1 to 5) in learning Math, Science, English, Tamil, Malay, and Chinese, using AWS for reliable performance and scalability.

5. AI Assistant for Visually Challenged (Hardware + software)

Designed a portable device integrating Python, YOLOv8 for object detection, Speech Modules, and Raspberry Pi, enabling visually impaired users to understand surroundings through audio output.

6. AI Voice Agents

Currently developing AI voice agents to automate sales, marketing, customer care calls et., using Vobiz and Vapi.ai

7. Brand Recognition & Industry Promotion

The Vennila AI brand logo was launched by the TN MSME Minister during the Seiga Puthumai event (StartupTN), highlighting our contribution to innovation.

Promoted Menmozhi services at government-organized events (StartupTN & TN Government) through stalls and direct engagement to acquire new customers and industry contacts.

7. Strategic Partnerships

Signed 9+ MoUs with industry and academic institutions to foster AI research collaboration, develop academic-industry linkages, and expand product adoption.

Clients served across India, USA, UAE and Malaysia

Software Engineer (Machine Learning)

RxLogix - Bengaluru

May 2019 to September 2021

- Designed, developed, and deployed end-to-end intelligent document processing systems focused on parsing structured and unstructured forms (PDFs and scanned documents) in the clinical and healthcare domain.
- Delivered customized solutions to over 10+ healthcare and pharma clients, enabling automated extraction of critical clinical data from medical form and, reducing manual data entry efforts.
- Implemented advanced OCR pipelines using Tesseract OCR and Abbyy FineReader, ensuring high accuracy in extracting text from low-quality scanned documents.
- Applied pre-processing techniques like image enhancement, binarization, and noise removal to improve OCR performance in challenging document scenarios.

Research Scholar / Faculty (Data Science and AI)

Aegis School of Data Science, Mumbai

April 2017 to March 2019

- Developed course materials and hands-on exercises focused on practical implementation of algorithms using libraries such as scikit-learn, TensorFlow, and Keras.
- Mentored students in applying data science techniques for real-world projects, guiding them through data preprocessing, feature engineering, model development, and evaluation.

- Collaborated with the marketing team to organize promotional meetups and events, aimed at creating awareness and generating interest in the institution's Post-Graduate courses.
- Actively contributed as part of the organizing team for the Data Science Congress, 2018, coordinating sessions, speaker interactions, and event logistics, which gathered data science professionals and academicians from across the region.

Education

Ph.D. in Computer Science

Bishop Heber College (Autonomous), Trichy

August 2012 – November 2017, Score: 81.33% (CGPA: 8.33, Distinction+)

Master of Computer Applications (M.C.A.,)

Anna University, Trichy

May 2009 – June 2012, Score: 77.9% (CGPA: 7.79, First Class)

B.Sc., Computer Science

Bishop Heber College (Autonomous), Trichy

June 2006 – April 2009, Score: 80.32% (CGPA: 8.29, First Class with Distinction)

Skillsets

Programming & Frameworks: Python, Flask REST API, Data Processing & ML

Libraries: Pandas, OpenCV, PyTorch, Scikit-learn

Databases: PostgreSQL, MongoDB

Document Processing: pdfplumber, Tesseractocr

Generative AI & LLMs: ChatGPT, Retrieval-Augmented Generation (RAG), Ollama,

LLAMA, AI Agents, AI Voice Agents,

Cloud & Deployment: AWS, Azure

Waveshare Jetbot (NVIDIA Jetson Nano), Raspberry Pi, Arduino