

# SARVESH RAAM T K

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## PROFILE

B.Tech Artificial Intelligence undergraduate with hands-on experience in applied industrial AI, automation, and agentic system development. Specialized in building multi-agent RAG pipelines, optimization models, and explainable AI frameworks. Interested in RD and AI Engineering roles involving autonomous agents, complex system design, and data-driven decision support.

## EDUCATION

<b>B.Tech in Artificial Intelligence</b>	2023 – 2027
SRM Institute of Science and Technology, Kattankulathur	CGPA: 8.08 / 10
<b>Higher Secondary Education (PCM)</b>	2019 – 2023
GEMIS, Tiruppur	Percentage: 72.3%

## INTERNSHIPS

<b>Research Intern – Applied Industrial AI</b>	Jun 2025 – Dec 2025
<i>Renault Nissan Technology &amp; Business Centre India</i>	
Worked as part of the Centre of Excellence for Agentic Twins. Contributed to 3D reconstruction, collision modeling, and spatial data optimization for industrial scenarios. Implemented algorithmic simulations for vehicle trunk space utilization and interactive web-based deployment.	
<b>Automation &amp; AI Intern</b>	Jan 2025 – Present
<i>Tube Products of India Ltd. (Murugappa Group)</i>	
Analyzing manufacturing maintenance and spare systems for legacy equipment. Converting domain knowledge into structured data insights to identify recurring breakdown patterns and support engineering teams in operational optimization.	

## PROJECTS

<b>ARIA — Autonomous Risk Intelligence Agent</b>	
Built a multi-agent RAG system using LangGraph and Groq (Llama 3) to automate financial risk assessment. Processes large-scale PDFs via LlamaIndex and fuses real-time news data from NewsAPI to identify hidden anomalies and generate professional, evidence-backed risk reports in under 30 seconds.	
<b>Global Scholarship Recommendation &amp; Management Platform</b>	
Developed a full-stack Flask application featuring a rule-based matching engine for financial aid. Implemented secure document processing, automated eligibility verification, and an administrative dashboard with real-time budget tracking and impact analytics using SQLite and Chart.js.	
<b>Clinical Explainable AI (XAI) Research Framework</b>	
Researched and implemented post-hoc explainability frameworks using SHAP and LIME for healthcare predictive models. Evaluated method stability and feature importance consistency across structured datasets to ensure reliability and transparency in high-stakes clinical decision-making.	

## SKILLS

**AI & Agents:** LangGraph, RAG, LlamaIndex, Groq (LLMs), SHAP, LIME (Explainable AI)

**Tools & Frameworks:** FastAPI, Flask, NumPy, Pandas, Power BI, Git, ChromaDB

**Programming:** Python, SQL, C, C++

**Core Concepts:** Optimization Logic, Computational Modeling, Data Analysis, System Thinking

## CERTIFICATIONS

Salesforce Certified Agentforce Specialist — Salesforce

## LANGUAGES

English Tamil Hindi