

# 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 R&D and AI Engineering roles involving autonomous agents, complex system design, and data-driven decision support.

## Education

**SRM Institute of Science and Technology**

B.Tech in Artificial Intelligence

**Indian Institute of Technology (IIT), Madras**

B.S. in Data Science and Applications

**GEMIS, Tiruppur**

**Expected Graduation: May 2027**

CGPA: 8.08

2026 – Present

12th Grade – 72.3% | 2023

## 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

**Languages:** English, Tamil, Hindi

## Internship Experience

**Renault Nissan Technology & Business Centre India**

Jun – Dec 2025

*Research Intern – Applied Industrial AI*

- 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.

**Tube Products of India Ltd. (Murugappa Group)**

Jan 2025 – Present

*Automation & AI Intern*

- 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

**ARIA — Autonomous Risk Intelligence Agent**

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.

**Tech Stack:** LangGraph, RAG, Groq, LlamaIndex, NewsAPI

**Global Scholarship Recommendation & Management Platform**

Architected a scalable full-stack web platform using Flask and SQLite, engineering an optimized recommendation algorithm to dynamically match students with financial aid. Designed secure RESTful API endpoints for automated document verification and integrated intuitive Chart.js dashboards for real-time budget forecasting and data-driven administrative insights.

**Tech Stack:** Python, Flask, SQLite, REST APIs, Chart.js

**Clinical Explainable AI (XAI) Research Framework**

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.

**Tech Stack:** SHAP, LIME, Python, Data Analytics

## Certifications

- SAP Certified: SAP Generative AI Developer – SAP
- Salesforce Certified: Agentforce Specialist – Salesforce