SARVESH RAAM T K

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PROFILE

B.Tech Artificial Intelligence undergraduate with hands-on experience in applied industrial AI, automation, and data-driven system development. Experienced in solving real-world engineering problems through optimization, analytical modeling, and structured decision support. Interested in Automation, R&D, and Digital Reconstruction roles involving problem-solving, modeling, and intelligent system design.

EDUCATION

B.Tech in Artificial Intelligence 2023 – 2027
SRM Institute of Science and Technology, Kattankulathur
CGPA: 8.08 / 10

Higher Secondary Education (PCM) 2019 – 2023
GEMIS, Tiruppur
Percentage: 72.3%

INTERNSHIPS

Research Intern – Applied Industrial AI Jun 2025 – Dec 2025
Renault Nissan Technology & Business Centre India
Worked as part of the Centre of Excellence for Agentic Twins on applied industrial AI use cases. Contributed to computational geometry, 3D reconstruction, collision modeling, and spatial data optimization for real-time industrial scenarios. Implemented algorithmic simulations and vector space representations to support optimization-driven system behavior and interactive web-based deployment.

Automation & AI Intern Jan 2025 – Present
Tube Products of India Ltd. (Murugappa Group)
Worked on automation-oriented analysis of manufacturing maintenance and spare systems for legacy equipment. Structured machine, spare, and failure data, analyzed recurring breakdown patterns, and supported engineering teams by converting domain knowledge into structured, data-backed insights for operational improvement.

PROJECTS

Intelligent Demand Forecasting & Scenario Analysis Platform
Designed an end-to-end data analytics platform to forecast future demand using historical time-series data. Implemented data preprocessing, feature engineering, and predictive modeling in Python to generate short- and medium-term forecasts. Built scenario analysis logic to evaluate the impact of changing inputs such as seasonality and growth trends, enabling data-driven planning and decision-making.

Smart Resource Allocation & Scheduling System
Designed a rule-based and data-driven system to allocate limited resources across multiple tasks under defined constraints. Implemented Python-based logic to evaluate priorities, dependencies, and availability, generating optimized schedules that minimize conflicts and improve utilization.

SKILLS

Programming: Python, SQL, C, C++
Core Concepts: Optimization Logic, Computational Modeling, Algorithmic Simulation, Data Analysis
Tools & Technologies: NumPy, Pandas, Excel, Power BI, Git
Strengths: Problem Solving, System Thinking, Analytical Reasoning

CERTIFICATIONS

Salesforce Certified Agentforce Specialist — Salesforce

LANGUAGES

English Tamil Hindi