# SARAN K

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## OBJECTIVE

Aspiring AI and Data Science student with a solid foundation in machine learning, data analytics, and distributed computing systems. Eager to apply technical and analytical skills in Agentic AI systems, automation, and data-driven industrial intelligence.

## EDUCATION

SENGUNTHAR ENGINEERING COLLEGE, Tiruchengode, Tamil Nadu, India

B.Tech Artificial Intelligence & Data Science | Oct 2022 – May 2026 | CGPA: 7.47 (up to 6th semester)

CSI SEC SCHOOL, Kotagiri, The Nilgiris, Tamil Nadu, India

HSC: 59% | SSLC: 61.6%

## SKILLS

Python, HTML, CSS, Mojo, NumPy, Pandas, Scikit-learn, Power BI, Apache Hadoop, SQL, Cassandra, PostgreSQL, n8n, Flowise, LangChain, Ollama, Open WebUI, Excel, Streamlit, Communication, Teamwork

## PROJECTS

**Industrial AI for Jaggery Manufacturing (Ongoing Project) – Role: AI Engineer & Analyst**

Developing AI models for classification of production types and batch outcome prediction. Integrating LLM-based tool-calling for intelligent database interaction and assisting in dashboard development using Streamlit for visualization of PLC/SCADA data. Tools: Python, Scikit-learn, PostgreSQL, Streamlit.

**Agentic AI Automation using n8n & Flowise**

Created autonomous AI agents for workflow automation and data retrieval. Integrated Ollama + Open WebUI for local LLM execution and vector-based querying.

**Commodity Price Prediction | Python**

Built LSTM model for commodity price forecasting using historical data and visualized trends with Matplotlib.

**Customer Database Management AI | Apache Cassandra**

Developed AI-based data access system using Cassandra on Linux for scalable and efficient data handling.

**Distributed File Systems | Apache Hadoop**

Implemented HDFS for large-scale file storage and parallel processing.

## CERTIFICATIONS & WORKSHOPS

Machine Learning, Web Development – Cursa | Signal Processing – MATLAB | Generative AI Applications | Intel OneAPI | AR/VR Technologies

## LANGUAGES

Tamil | English | Hindi (Prathamic)