

# S HARESH SAINAATH

AI & ML STUDENT | DESIGNING INTELLIGENT SYSTEMS | MACHINE LEARNING  
DEEP LEARNING AUTOMATION | FRONTEND DEVELOPER TURNING IDEAS INTO  
PRODUCTS | INTERESTED IN SCALABLE & IMPACTFUL INNOVATION

Coimbatore, Tamil Nadu, 641024 ♦ +918825902116 ♦ shareshsainaath@gmail.com ♦

LinkedIn: <https://www.linkedin.com/in/haresh-sainaath-159061> ♦

WWW: <https://haresh-sainaath-portfolio.vercel.app/>

## PROFESSIONAL SUMMARY

Aspiring Artificial Intelligence and Machine Learning Engineer with a strong passion for developing intelligent, data-driven systems that create a tangible impact. Currently pursuing a Bachelor of Engineering in Artificial Intelligence and Machine Learning at Sri Krishna College of Technology, establishing a solid foundation in software engineering and core machine learning principles. Proficient in Python, C++, SQL, FastAPI, React.js, and popular ML frameworks such as Scikit-Learn, Pandas, NumPy, and Matplotlib, with hands-on experience in the complete machine learning pipeline from data preprocessing to model deployment. Committed to continuous learning and collaboration, eager to contribute to innovative AI-driven solutions while seeking opportunities for mentorship and professional growth.

## WEBSITES, PORTFOLIOS, PROFILES

- [www.linkedin.com/in/haresh-sainaath-159061326](http://www.linkedin.com/in/haresh-sainaath-159061326)
- [haresh-sainaath-portfolio.vercel.app/](https://haresh-sainaath-portfolio.vercel.app/)

## TECHNICAL PROFILE

Industrial automation



Machine learning integration



Full-stack development



Product development



Git workflow management



Cost Reduction practices



Feature engineering



Data analytics



Mobile application development



Python programming



API integration



Agile methodologies



## SKILLS

Python development



API design and integration



Agile methodology



Machine learning frameworks



Mobile app development



Software testing



Model Context Protocol (MCP)



Feature engineering



## PROJECTS

### Full-Stack E-Commerce / CRUD Web App

React.js · Node.js · MongoDB · REST API

- Built a full-stack web application with a React.js frontend and Node.js/Express backend providing RESTful APIs.
- Designed MongoDB schemas for products, users, and orders; implemented full CRUD, validation and error handling.
- Applied modular architecture and documented modules; maintained Git history and CI-friendly project structure.

### FastAPI Backend with PostgreSQL

Python · FastAPI · PostgreSQL · SQLAlchemy

- Developed a production-ready REST API with FastAPI and PostgreSQL using SQLAlchemy ORM.
- Implemented JWT auth, role-based access control, and OpenAPI documentation for all endpoints.

## Flutter Cross-Platform Mobile App

Flutter · Dart · Firebase · REST API

- Built a cross-platform mobile app with Flutter and Firebase Firestore; integrated REST APIs for dynamic data.
- Handled auth, real-time updates, and end-to-end testing across emulators and device builds.

## ML Model Deployment via API

Python · FastAPI · Scikit-Learn · Docker

- Trained classification models with Scikit-Learn and built preprocessing pipelines with feature engineering and cross-validation.
- Served models through FastAPI `/predict` endpoints and wrote unit tests for inference and API routes.`

## MCP-Integrated AI Tooling & RAG Systems

Python · MCP · RAG · Vector DB · LLM

- Designed and implemented MCP integrations and RAG pipelines, building vectorized knowledge bases and exposing vector search as callable tools.
- Built a Voice Docs Assistant to convert natural language into structured DB queries via MCP, and a NotebookLM-style knowledge assistant using embeddings.

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## WORK HISTORY

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### Software Engineering Intern, 05/2026 - 06/2026

Tennecco – Hosur, India

- Developed and tested software applications using Python, improving functionality and user experience.
- Designed and implemented scalable applications for data extraction and analysis.
- Utilized version control systems to streamline software development workflows.
- Designed and developed systems that address user needs and enhance productivity.
- Participated in Agile development meetings, contributing ideas that refined project timelines and tasks.

### Machine Learning Intern, 07/2025 - 08/2025

Codsoft – Remote

- Developed and tested machine learning models using Python and TensorFlow to enhance predictive accuracy.
- Collaborated with cross-functional teams to gather data requirements and streamline data processing workflows.
- Assisted in the implementation of data visualization tools, improving insights and decision-making processes.
- Conducted exploratory data analysis to identify trends, informing model adjustments and improving performance.

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## EDUCATION

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**Class XII:** Computer Science

**Maharishi Vidya Mandir Senior Secondary School** - Hosur, India

**Bachelor of Engineering** - BE: Computer Science(Artificial Intelligence and Machine Learning),

Expected in 08/2028

**Sri Krishna College of Technology** - Coimbatore, India

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## CERTIFICATIONS

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- Introduction and Advanced topics in Model Context Protocol
- HTML, CSS, and Javascript for Web Developers
- Google AI Essentials
- Generative AI: Introduction and Applications
- Python for Data Science
- Cloud Computing Fundamentals
- Introduction to Machine Learning