



# Sandana S

## Data Science & Machine Learning Professional

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⬇ Visit Visa ⬇ <https://www.linkedin.com/in/sandana---s/>

🔗 <https://sandana-s.github.io/portfolio/>

## Professional Summary

I'm a data and AI professional with hands-on experience in developing and deploying intelligent systems using **Python, Machine Learning, and Deep Learning**. Skilled in **data analysis, visualization (Power BI)**, and backend development with tools like **FastAPI, Azure, and Docker**, I've worked on multiple real-world projects that bridge theory and practical implementation. Passionate about continuous learning and applying AI-driven solutions to solve complex business problems.

## Professional Experience

07/2025 – 10/2025

Ernakulam,India

### AI/ML Intern - Quper Technologies

- Worked with Git, Docker, and Azure (Container Apps, Static Web Apps, DevOps) for deployment.
- Hands-on with containerization, microservice integration, and versioned deployment.

#### Key Projects:

- **Grain Analyzer (YOLOv8 + Streamlit):** Built a model to classify good/bad grains and deployed using Modal + FastAPI.
- **AI Microservice for Expense Automation (Abide WebApp):** Developed an AI microservice for invoice and expense extraction using multi-agent orchestration and OpenAI APIs.

12/2024 – 06/2025

Ernakulam,India

### Data Engineer Intern | Quadtri Technologies Pvt Ltd

- Collaborated with AI and IoT teams for YOLOv8-based object detection systems.
- Managed data collection, augmentation, and real-time alert integrations.

06/2024 – 12/2024

Ernakulam,India

### Data Science intern | Luminar technohub Pvt Ltd

- Applied theoretical concepts to practical projects, strengthening skills in **Machine Learning, Deep Learning, and Power BI**.
- Practiced continuous skill development and explored new tools like **Git** and **Docker** for real-world data science applications.

## Technical Skills

### NLP:

Hugging Face, Text Extraction, Transformer Models

### Cloud:

Azure (DevOps, Blob Storage, Container Apps), Git, Docker

### Programming & Data:

Python, SQL, Excel, NumPy, Pandas, Seaborn, Matplotlib, Data Cleaning, Dashboard Creation

### Analysis Tool:

PowerBI

### Machine Learning & AI:

Supervised & Unsupervised Learning, ANN, CNN

## PROJECTS

### PDF answering - Agentic RAG Chatbot ↗

- An advanced Retrieval-Augmented Generation (RAG) chatbot application that intelligently routes user queries to specialized AI agents (Q&A, Summarization, PPT Creation) based on the user's intent.
- The system is built using a modern **React** frontend and a performant **FastAPI** Python backend, featuring Ollama for the Language Model and FAISS for vector storage and semantic caching.

### HR Analytics Classification- Machine Learning ↗

- Developed an XGBoost-based HR analytics model to predict employee promotions with ~82% validation accuracy, leveraging key features like performance ratings, training scores, and service length.

### Agricultural Crop yield of India States- PowerBI ↗

- Completed an in-depth report on agricultural crop analysis across Indian states, providing valuable insights for informed decision-making.

## Courses & Certifications

09/2023 – 06/2024  
Ernakulam, India

**Big Data analytics & Data science(NACTET)** ↗  
Luminar Technolab Training institute

## EDUCATION

2018 – 2021  
Kerala,India

**Bachelor of Science-Physics**  
University of Kerala  
Completed Bachelor of Science with distinction from the University of Kerala in 2021, achieving an A grade.

2016 – 2018  
Kerala,India

**Higher secondary education**  
Board of Higher Secondary Education  
Completed Higher secondary education with 95% marks

## LANGUAGE

English

Hindi

Malayalam

Tamil

## DECLARATION

I hereby declare that the above particulars given by me are true to the best of my knowledge and belief.

Sandana S