



Sandana S

Data Science & Machine Learning Professional

✉ sandana3202@gmail.com ☎ +971 568758547 📍 Karama,Dubai,UAE

📄 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

Analysis Tool:

PowerBI

Cloud:

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

Machine Learning & AI:

Supervised & Unsupervised Learning, ANN, CNN

Programming & Data:

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

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