# Sandana S

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## PROFESSIONAL EXPERIENCE

**AI/ML Intern**                                                                           Jul 2025 – Oct 2025 | Kochi,India
*Quper Technologies*  ⌀

- Collaborated closely with full-stack developers, business teams, UI/UX designers, and senior engineers to build and deploy AI-driven web applications.
- Worked with **Git**, **Docker**, **Azure Portal**, **Azure Container Apps**, **Azure Static Web Apps**, **Azure Storage Accounts**, and **Azure DevOps** for version control, CI/CD, and deployment management.
- Gained hands-on experience in **containerization**, **microservice integration**, and **versioned deployments** across environments.

  **Key Projects:**
- **Grain Analyzer (YOLOv8 + Streamlit)** – Developed an image classification model using **YOLOv8** to detect and categorize good/bad grains. Integrated with **Streamlit** UI to display annotated results, counts, and predictions. Containerized and deployed via **Modal** with **FastAPI** endpoints and custom Python app packaging.
- **AI Microservice for Expense Automation (Abide WebApp)** – Engineered a standalone **AI service** to extract invoice and expense details using **multi-agent orchestration (OpenAI APIs)**. Designed **FastAPI endpoints** for data exchange, automated JSON-based field extraction, and integrated with the main web app. Deployed using **Azure Blob Storage** and **Azure Container Apps**.

**Data Engineer Intern**                                                                 Dec 2024 – Jun 2025 | Ernakulam, India
*Quadtri Technologies Pvt Ltd*

- Collaborated with **AI and IoT teams** to design and deploy **object detection systems** using **YOLOv8**, managing end-to-end model development from **data collection, augmentation, and cleaning** to real-time alert integration.
- Enhanced **Docker-based deployment workflows** and contributed **research insights** to improve model accuracy, system performance, and seamless **production integration**.

## PROJECTS

**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.
- Performed **EDA, feature encoding, and imbalance handling (~8% positive cases)** to improve recall for promotion prediction by over **70%**, enabling data-driven HR decision-making.

**Chatbot creation- Rasa framework(NLP)**  ⌀
- Designed a **Rasa-based chatbot** that automated FAQs and managed a large share of user queries, reducing manual support and improving response time.

**AskYourPDF – Intelligent Document QA Chatbot**  ⌀
- Built a Streamlit-based chatbot in Python using Hugging Face's roberta-base-squad2 and pdfplumber, reducing manual document search time.

**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

**Bigdata Analytics-Data science**  ⌀
*Luminar Technolab*
Sep 2023 – Jun 2024 | Ernakulam

## SKILLS

**Programming & Data::**  Python, SQL, Power BI, Excel, NumPy, Pandas, Seaborn, Matplotlib, Data Cleaning, Dashboard Creation

**Bigdata & Cloud:** Azure (DevOps, Container Apps, Blob Storage, Static Web Apps), Git, Docker (Containerization & Deployment)

**Natural Language Processing:** Hugging Face Transformers, Rasa Framework, NLP Techniques, Text Extraction

**Machine learning & Deep Learning:** Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN) | Scikit-learn, TensorFlow, Keras, Hyperparameter tuning

**Soft skill:** Team collaboration, clear communication, analytical thinking, quick learning

**Web & App Development:** Streamlit, Flask , HTML, CSS

## EDUCATION

**BSc Physics under University of Kerala**
*Sree Narayana College for Womens*
Jul 2018 – Mar 2021 | Kollam
  Completed Bachelor of Science with distinction from the University of Kerala in 2021, achieving an A grade.

**Higher Secondary Education**
*Board of Higher Secondary Education*
Jun 2016 – Mar 2018 | Kollam,Kerala

## INTERNSHIP

**Data science intern at Luminar technohub**
Jun 2024 – Dec 2024 | Ernakulam