Sandana S

AI ML Engineer

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PROFESSIONAL EXPERIENCE

AI ML Intern   07/2025
Quper Technologies 🔗   Ernakulam, India
- Working in an Agile environment with daily scrum meetings, adhering to industry-standard project delivery practices.
- Underwent foundational training in **HTML, CSS, and JavaScript** for front-end development basics.
- Assigned to a **Grain Image Analyzer project** focused on object detection, selecting corn kernels as the initial domain for Proof of Concept (PoC) development.

Data Engineer Intern   12/2024 – 06/2025
Quadtri Technologies Pvt Ltd 🔗   Ernakulam, India
- Contributed to end-to-end object detection projects with AI and IoT teams, handling data preparation, model development using **YOLOv8**, and real-time system integration.
- Supported Docker-based deployment and provided research insights to optimize model performance and workflows.

SKILLS

Data Analysis & Visualization
Power BI, Microsoft Excel, NumPy,Pandas, Seaborn, Matplotlib, Data Analysis, Data Modeling, Dashboard Creation, Reporting, EDA

Natural Language Processing
Hugging Face Transformers (deepset/roberta-base-squad2) | Rasa Framework | NLP Techniques and Applications | Text Extraction using pdfplumber

Web, API & UI Development
Flask, FastAPI, Streamlit, Python, HTML, CSS

Programming Language & Databases
Python , SQL

Machine learning & Deep Learning
Artificial Neural Networks(ANN), Convolutional Neural Networks (CNN),Scikit-learn,TensorFlow, Keras, Hyperparameter tuning,YOLOV8

Model deployment & MLOps
Docker , Modal

COURSES & INTERSHIPS

Bigdata Analytics-Data science
Luminar Technolab
09/2023 – 06/2024 | Ernakulam

Data Science Intern
Luminar technohub
06/2024 – 12/2024 | Ernakulam

IBM-Data Analytics Internship
06/2024 – 08/2024
Completed a 6-week IBM SkillsBuild Summer Internship Program with CSRBOX, gaining valuable skills in data analytics.

EDUCATION

BSc Physics under University of Kerala
Sree Narayana College for Womens
07/2018 – 03/2021 | 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
06/2016 – 03/2018 | Kollam, Kerala
Completed Higher secondary education with 95% marks.

PROJECTS

AskYourPDF - Intelligent Document QA Chatbot
04/2025
- Built a Streamlit-based chatbot in Python using Hugging Face's roberta-base-squad2 and pdfplumber, reducing manual document search time by up to 60%.

HR Analytics Classification- Machine Learning
06/2024
- Created a model to help predict promotions, saving time and making decisions more accurate.
- Improved HR operations by refining decision-making processes and talent management.
- Applied algorithms like KNeighborsClassifier, SVC, Naive Bayes, Random Forest, and Decision Tree.

Chatbot creation- Rasa framework (NLP)
07/2024
- Built a chatbot using the Rasa framework that handled over 70% of incoming user queries, improving self-service efficiency.
- Automated FAQs for course details, locations, and contact, reducing manual support work.
- Reduced average user response time from minutes to seconds, leading to noticeably faster interactions and better user satisfaction.