Qubayl Alqahtani

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Summary: *Experienced professional proficient in leveraging advanced analytics to extract valuable insights and implement actionable solutions. Committed to a data-driven decision-making approach, I actively contribute my expertise to impactful initiatives, utilizing state-of-the-art techniques to uncover patterns and drive innovation.*

EDUCATION

Master of Science in Information Systems   **Riyadh, Saudi Arabia**

King Saud University – *GPA: 4.86*   September 2019 - April 2021

o   *Specializations***:** Data Mining, Conversational AI, Machine Learning, Natural Language Processing, Sentiment Analysis, Topic Analysis, Computer Vision.

Bachelor's Degree in Data Science

King Saud University – *GPA: 4.23*   **Muzahimiyah, Riyadh**

o   *Specializations***:** Data Mining, Machine Learning, Statistics, Data Structures and Algorithms.   April 2014 - January 2018

WORK EXPERIENCE

Expert Data Engineer   **Riyadh, Saudi Arabia**

Ministry of Energy   Jan 2025 – Current

o   Build batch and real-time ETL/ELT pipelines using Python, Apache Airflow, Apache Kafka, Apache Spark, SQL Server, ensuring reliable data movement across landing, staging, and production environments.

o   Design and deploy MLOps components including model registry, artifact storage with MinIO, FastAPI-based model serving, and Airflow orchestration to ensure reproducible, scalable, and automated ML lifecycles.

Senior Data Scientist & MLOps Engineer   **Riyadh, Saudi Arabia**

Mrsool   Sep 2022 – Jan 2025

o   Led the development of predictive models to optimize courier dispatching and forecast customer demand.

o   Deployed and maintained machine learning models in production, ensuring operational efficiency through robust MLOps practices, including seamless deployment, monitoring, and automation.

o   Enhanced an internal analytical package to include ML model management and monitoring capabilities.

o   Built Looker Explores and dashboards for monitoring ML projects and models performance, ensuring visibility and performance tracking of models deployed in production environments

Session Lead - Data Analyst Nanodegree

Udacity – Part-time   Sep 2022 - Jan 2023

• Facilitated student learning by delivering lectures, workshops, and assignments on data organization, pattern recognition, predictive modeling, and data communication.

• Provided instruction on data visualization, including techniques such as histograms, bar charts, and frequency plots.

• Taught students methods for evaluating dataset quality and implementing data cleaning and preprocessing procedures.

Data Scientist   **Riyadh, Saudi Arabia**

Mrsool   May 2020 – Sep 2022

o   Build users' complaints classification model to enhance ticket assigning system.

o   Conducted exploratory data analysis (EDA) to identify valuable insights and patterns, supporting data-driven business strategies.

o   Worked on feature engineering to optimize the performance of machine learning models.

o   Searched for patterns in data that can provide solutions to business problems or create new business opportunities.

Associate Data Scientist   **Riyadh, Saudi Arabia**

Saudi Information Technology Company   June 2018 - May 2020

o   Use mathematical and computer science skills to analyze pools of data under the guidance of senior data scientists.

o   Handle data gathering and pre-processing to feed it into machine learning models.

o   Build Supervised and unsupervised Machine learning algorithms and use pre-trained model depending on the business needs.

Business Intelligence Developer   **Riyadh, Saudi Arabia**
Saudi Customs   March 2018 - June 2018
o   Crafting and executing queries upon request for Data.
o   Developed and managed dashboards using Oracle OBIEE.

Research Assistant   **Riyadh, Saudi Arabia**
King Abdul-Aziz City for Science and Technology   February 2017 - August 2018
o   Scraped tweets and applied text pre-processing techniques such as tokenization, removing noisy data, stemming and punctuation.
o   Developed real-time visualization of tweets trend.

SKILLS

o   **Programming Languages:** Python, SQL, Java, JavaScript, HTML/CSS.
o   **Tools:** Git, Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV, NLTK, Rasa, Matplotlib, Seaborn, Flask, FastAPI, MLflow, BentoML, Airflow, Spark, Kafka, Informatica, Docker.
o   **Soft Skills:** Stakeholder Engagement, Cross-Functional Collaboration, Problem Solving.
o   **Interests:** MLOps, Data Engineering, AI, and Self-Development.
o   **Languages:** Arabic: Native Speaker; English: Fluent Speaker;

SELECTED PROJECTS

1. **Order Preparation Time Prediction Model with API Integration**

    Objective: Developed a machine learning model to predict order preparation time for courier dispatching optimization. Utilized Docker for containerization and Kubernetes for orchestration. Implemented pipelines for automated deployment.

2. **Geohash-Based Demand Forecasting for Supply Optimization**

    Objective: Forecasted customer demand in specific regions for supply dispatching optimization. Deployed forecasting model on AWS EC2 for scalability. Created geohash heat map visualization for data-driven decision-making.

3. **Conversational AI Assistant for Courier Support**

    Objective: Built a contextual chatbot to address frequently asked questions from Mrsool's couriers. The aim is to reduce the workload on Mrsool's customer service agents by providing automated responses to straightforward queries, freeing up

    agents for more complex issues.

CERTIFICATIONS

Managing Machine Learning Projects
Duke University on Coursera   April 2024
Project scoping, stakeholder alignment, lifecycle planning, and risk mitigation in ML initiatives.

Deploying Machine Learning Models in Production
DeepLearning.AI   April 2024
o   Techniques for deploying and managing ML models in production using APIs, containers, and CI/CD.

Introduction to Machine Learning in Production
DeepLearning.AI   March 2024
o   Best practices for building ML systems at scale including reproducibility, deployment, and monitoring.

Generative AI with Large Language Models
DeepLearning.AI + AWS   March 2024
o   Building and fine-tuning LLMs, prompt engineering, and applying generative AI to real-world applications.

Data Scientist Nano Degree

Udacity   August 2019

o   Data and machine learning pipelines, design experiments, recommendation systems.

Data Scientist in Python

Dataquest.io   January 2018

o   Python programming language for data scientist daily tasks.

Certified RapidMiner Analyst

RapidMiner   October 2018

o   Master RapidMiner usage for data science use cases.