MAHAMMAD OJAGZADA

Researcher/Data Engineer

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SUMMARY

I am a Researcher/Data Engineer with a background in Petroleum Engineering, skilled in applying data-driven solutions to engineering problems and performing segmentation statistical analyses on large datasets using tools like SQL, PySpark, and Python. I have worked on 4+ projects of BP at the Digital Research Lab. I like to create algorithms/pipelines for data solutions and I am passionate about leveraging data science in specialized fields.

EXPERIENCE

Researcher

Digital Research Lab — 02/2023 - Present — Baku

Research Services

- Solves timeseries engineering problems and product development/deployment onto various systems such as Palantir.
- Conducts complex data analysis and report on results and present data using various data visualization techniques and tools.
- Prepares data for prescriptive and predictive modelling including machine learning models.

Project name	Description
Reservoir Depletion Operating Limit (BP)	Engaged on heavy back-end data manipulation and created a comprehensive dashboard on Palantir Foundry about petroleum reservoir characteristics (H2S, pressure, etc.) **Tools:** *JavaScript, Python, Palantir Foundry*
Techlog Automation (BP)	Created an advanced, scalable Python utility designed to enhance the creation and visualization of well logs. These Onepagers are steamed to SharePoint via Azure. **Tools:** *Advanced Matplotlib, Python, SQL Server, SQL Alchemy*
SCP Detection (BP)	Created a Python tool to detect annulus pressure build-up, TBA communication in any well annulus using analytical methods and SVM Classifier model. **Tools:** *Python, SQL, PySpark, ML,, Palantir Foundry*
Wax Precipitation Prediction (BP)	Created data pipelines that collect data, feed data into an MLP model, and store it incrementally over time in Palantir Foundry using Code Repositories and Model Adapter. **Tools:** *Python, PySpark, ML, SQL, Palantir Foundry*

Machine Learning Engineer intern

iNeuron.ai — 06/2022 - 09/2022 — Remote (India)

- Completed the Machine Learning project (Metro Interstate Traffic Volume Prediction) from end to end with Data Preparation/Processing, Model Development/Tuning, and Model Deployment
- Created UI for the project on Anvil using Flask and deployed the tool on Heroku

EDUCATION

MSc. Reserveoir Evaluation and Management

Baku Higher Oil School

2024 - Present
Baku, Azerbaijan

BSc. Petroleum Engineering

Baku Higher Oil School

2019 - 2024
Baku, Azerbaijan

- Developed technical knowledge on Petroleum Engineering and participated in internships in national major oil operating and service companies
- Benchmarked the analytical and numerical solutions of the Buckley-Leverett theory in 1D, demonstrating the accuracy and efficiency of numerical methods in modeling fluid flow in porous media.

TRAINING/COURSES

Machine Learning Specialization (2023)

by DeepLearning.AI

- Studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection) and recommender systems, and gained practical skils to solve challenging real-world problems.

Data Science Bootcamp (2021)

by Data Science Academy

- Completed the 12-week bootcamp program whcich was designed to demonstrate the world of Statistics, Data Analytics, and Data Science methodologies using R, Python, Spark SQL, AWS, Hadoop, MapReduce, TensorFlow, Tableau, SPSS and other popular industry tools.

SKILLS

Python **Tableau** **SQL** **JavaScript**

Data Engineering **Machine Learning**

Strong Analytical/ Problem Solving Skills

Palantir Foundry **Git** **Critical Thinking**

PySpark **Tensorflow**