

ALI FAZELI

DATA/MLOPS ENGINEER

PROFILE

Personable Data Engineer/MLOps with 7+ years of experience in design and implement scalable data solutions in a variety of industries. Skilled in data architecture and design principles, as well as data modeling and ETL/ELT processes. Proficient in Python programming language, as well as SQL and data manipulation tools. Strong understanding of Data Quality and governance practices, ensuring that data is reliable, consistent, and secure.

WORK EXPERIENCE

LEAD DATA ENGINEER

[Thousand Ways](#), Tehran — May 2020- Present

Founder and Solution Architect of a domestic big data analytics platform called **Zhaav**, Based on cloud-native principles, a work in progress. Accessible at <https://zhaav.net/>

Responsibilities:

- Design and deploy performable data pipelines in various data centric projects.
- Deploy and fine tune **Data Mining solutions** to our main enterprise customer. collaborating through achieving a **Data Driven Decision making** mechanism.

Achievements:

- Provision, Deploy and Functionality Acceptance test of a Big Data Analytics solution called [Sefonsoft SDC](#), acquired by Iranian Police.
- I've contributed in various projects in terms of **data pipeline fine tuning, business domain pattern recognition, etc.** due to the non-disclosure agreements with our national/governmental customers, related work portfolio can be provided upon request.
- Created a **Real Time SQL Streaming Ecosystem** with **50K EPS** which accomplished bright results through a Customer Experience Management project in Telecommunication context.

SENIOR MLOPS ENGINEER

[Sheypoor](#), Iran — August 2022 – March 2023

Responsibilities:

- Design and implement various data pipelines in order to satisfy Customer's AdTech analytical needs.
- Migrating the traditional ETL pipelines to **Apache Airflow**.
- Holding training sessions among the team for data modernization paradigms, progressing towards **Data Mesh** principles.

Achievements:

- Re-implement the **Recommender System** of **Real Estate ads** vertical, using various features of each listing. Empowered by Elastic Search's **vector search engine**.
- Design and deploy a novel recommender system inference system, respecting the **Cloud Native** architecture with the **TPS** of 400.



PERSONAL DETAILS

DOB: 20 AUGUST 1995

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Tehran, Iran

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PROFESSIONAL SKILLS

Programming Language:
Python, bash script

Deep Learning:
PyTorch, Hugging Face Libraries

Data Manipulation:
Pandas, Numpy,
Great Expectations

Hadoop Ecosystem:
HBase, Hive, Sqoop

Visualization/BI:
Tableau, Apache Superset

ETL/ELT:
Apache Airflow, Hitachi PDI

Relational Database:
Oracle, Postgres, MySQL

Non-Relational Database:
MongoDB, Redis, MinIO

Analytical Database:
Apache Druid, Apache Doris

Operating System:
MacOS, Linux (RedHat)

Virtualization Tools:
Docker, VMWare Stack

Version Control:
Git

MLOPS ENGINEER CONSULTANT

BRGroup CTO Department, [Blue Ray Company](#), Tehran — Jan 2022 – June 2022

Joined here due to worthwhile prospect of the group for stepping towards Intelligent OSS targets. workin on automating the procedure of **NMOS** interface query invocation and also had helped in fine tuning several reports for the **BRCCell's performance team**.

Responsibilities:

- Designed and implemented the **SLA Calculation Solution**.

Achievements:

- Developed an enterprise-level data pipeline through more than **7K** lines of code.
- Reconciling and unification of SLA related OSS KPIs between 3 telco vendors (Huawei, Ericsson and Nokia)
- Enhancing the data pipeline architecture in order to conserve performance, regardless of data volume.

DATA ANALYST

[Huawei Technologies](#), Tehran — May 2018 – May 2020

Participated in a Customer Experience Management (CEM) project.

My work there usually involved **maintaining the big data lake** of user-plane and signaling data, which were Apache Hadoop's family. including **Impala** and **HBase** for the data warehouse. and also monitor, refine and T-shoot Hive and Spark query engines. besides, it was my responsibility to create and **maintain BI reports** using **Tableau** and my Machine Learning knowledge to verify the data accuracy of our Big Data system.

Responsibilities:

- Determining business KPIs and the correlation factors, as well as defining novel business **KQIs** (Key Quality Indicator) in order to intensify quality of MTN Irancell's network and also refining the network's failures and weak points.
- Extracting data from mentioned data sources, doing the ETL/ELT process on them via tools like **Tableau Prep** and **Python scripts + Airflow** to make the customized correlation between raw data and business KPI/KQIs. Also creating Stored Procedures and Triggers in order to ensure the availability of every aggregation level of data was part of my job.
- Implemented a **Real time anomaly detection** process, using **PySpark** and **Dask**, in order to detect outstanding user plane throughput and traffic for each of [MTN](#) subscribers.

Achievements:

- I've held two series of Python training course for my Telecom colleagues, building up their automation skills, using Pandas and myself deployed automation software.
- Proficiency in **Tableau**, experienced several cases in which I turned a high-level business KPI into a complete data pipeline process and BI report.
- Huawei Employee of the month** August 2019

LANGUAGES

English

Reading: Proficient
Listening: Proficient
Speaking: Independent
Writing: Proficient

Farsi

Mother Tongue

Azerbaijani

Listening: Proficient
Speaking: Independent

ORGANIZATIONAL SKILLS

High Perseverance

Enjoying Participation Ethical

Work Commitment

JOB RELATED SKILLS

Team Player

Good Listener

PERSONAL HOBBIES

Snooker, FPV Drones
Aqua scaping

ADVANCED PROGRAMMING COURSE TA

Tabriz University, Iran — June 2016- September 2016

Had a Great experience during learning how to code with python together. Under Supervision of [DR. Seyed Naser Razavi](#).

EDUCATION

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING

Tabriz University — September 2013 - January 2018

Final Project: presenting a novel model for implementing cultural algorithms. proposed algorithm aims to increase performance of cultural algorithms by contextualizing a new algorithm about **improve the dietary tastes of people** in bedding of communications between people and chefs and scoring the highest desired food recipes between chefs' communities. This algorithm is a customized cultural algorithm that can compete well besides classic cultural algorithms to solve constrained optimization problems.

Other mentionable activities:

- Member of the Academic Department
- Advanced Programming Teacher assistant (2 Semesters)
- Created a Plant Care Robot called **GolCare** which utilized **Q-Learning** algorithm in order to seek for sufficient amount of light, humidity and temperature for proper plant growth.
- Wrote a **Denial-of-service** python script as my Computer Network course which took down my university landing page for about 15 minutes. Video demonstration is available at this [Youtube](#) Link.

MASTER OF ARTIFICIAL INTELLIGENCE

Islamic Azad University Science and Research Branch — September 2019 - January 2022

Passing all the theory courses with GPA 2.9 through 3 semesters.

Quitting due to excessive work pressure in Huawei Technologies.

REFERENCES

[Milad Sefidgaran](#)

Senior ML Researcher, Paris, FR

[DR. Mina Zolfi](#)

Assistant Professor
at Tabriz University