

Mojdeh Hosseini

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Professional Summary

Data Scientist with a strong foundation in statistical modeling, machine learning, and data-driven experimentation. Skilled in Python, SQL, Spark, and ETL pipelines. **I am a problem solver who likes to grow and learn, enjoy working in startups, and make decisions based on data.** Experienced in developing predictive models, classification systems, and recommendation engines to drive business outcomes.

Education

M.Sc. in Computer Science (Jan 2022 – Aug 2024)
Concordia University, Montreal, Canada

Certifications

- Tableau 2024 A-Z: Hands-On Tableau Training for Data Science, Udemy (Nov 2024)
- Data Engineering Capstone Project, IBM/Coursera (Oct 2024)
- Data Warehouse Fundamentals, IBM/Coursera (Oct 2024)
- ETL and Data Pipelines with Shell, Airflow, and Kafka, IBM/Coursera (Sep 2024)
- The Complete SQL Bootcamp, Udemy (Jan 2023)

Technical Skills

Languages: Python, SQL, Java

ML Tools: Scikit-learn, TensorFlow, PyTorch

Data Processing: Spark, Pandas, Numpy, Airflow, Kafka, MySQL, PostgreSQL, MongoDB

Visualization: Tableau, Looker Studio, Matplotlib, Seaborn

Other: Git, Agile (Jira/Confluence), A/B Testing

Professional Experience

Data Analyst (Growth Team) — Pinket.com, Tehran, Iran (Jan 2021 – Aug 2021)

- Built predictive ML models (customer churn, retention) using Python and Scikit-learn.
- Implemented ETL pipelines with Spark and Python, improving data freshness and accuracy.

Data Analyst & Digital Marketer — Tizland.ir, Tehran, Iran (Sep 2018 – Dec 2020)

- Performed A/B tests and regression methods for conversion optimization.
- Enhanced data quality and model accuracy through SQL-based feature engineering.

Executive Director — Imam Ali Students Relief Society, Tehran, Iran (Mar 2020 – Sep 2021)

- Directed educational and welfare programs, boosting participation rates.
- Oversaw 30+ volunteers, implementing agile methodologies for program development.

Key Projects

Data Engineering Capstone (IBM, Oct 2024)

- Spark-based recommendation and clustering for large-scale data.
- Airflow pipelines for continuous data ingestion and model updates.

Big Data Course Projects (Spring 2024)

- Developed an MRI-based Alzheimer's classification system using ResNet-18 and Random Forest, enhancing performance with data augmentation and SMOTE (Team of 4).
- Built an ALS-based recommender system for the MovieLens dataset and conducted clustering and frequent itemset mining for ecological data insights.

Advanced Sentiment Analysis (NLA Course, Dec 2023)

- NLP-based sentiment analysis using NLTK and feature-based parsing.

Income Pattern Analysis (AI Course, Jun 2023) – Team of 4

- Supervised and deep models on Adult Census for income trends.
- Regression, clustering, handling missing data, and class imbalance.

Computer Vision Techniques Implementation (Computer Vision Course Project, Apr 2024)

- Implemented image processing operations (filtering, edge detection, Hough transforms) for feature extraction.