Moja Afroughi

Data Scientist, MSc

CONTACT

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Summary

Moja is an experienced Data Scientist and Python Developer specialized in Data Mining, BI and Business Experimentation, Statistical Modeling, AI and advanced Machine Learning.

Currently at Flashfood Inc, he oversees the full-scope execution of advanced analytics with the objective of creating inferences, predictions, and recommendations for improvements to business processes, and the KPI/metrics to monitor those improvements. His other focus is developing software tools for ETL, designing/modifying database schema, data models and pipelines, as well as automating common analysis workflows through serverless platforms.

Areas of Expertise

- o Advanced OOP with Python and complex query development with SQL;
- o Data mining, data wrangling, web scraping, and extracting insights from large, messy datasets;
- o Business experimentation, A/B testing, and BI analytics;
- Supervised and unsupervised ML (predictive model development, regression and classification analysis), deep learning and recommendation systems leveraging ML libraries such as Scipy, Statsmodels, Scikit-Learn, Karas, TensorFlow, and XGBoost;
- Big data analytics and distributed computing using Spark and MLib;
- o Interactive visualization, dynamic dashboard design and embed reports using Plotly, D3.js, and Tableau;
- Structured and unstructured database management using PostgreSQL, MongoDB, and Amazon Redshift, ORM and schema design using SQLAlchemy, as well as data integration, ETL automation, and pipeline designe;
- o Cloud and serverless computing using AWS EC2 and Lambda.

Education

MSc, Machine Learning
University of Alberta, CA

BSc, Mechanical Engineering 2015

Work Experience

Sharif University of Technology, IR

Data Scientist Since 2019

Flashfood Inc, CA

- Data mining and extracting meaningful insights from large databases and APIs;
- A/B testing and BI analytics for KPI and customer behavior analysis;
- o Machine learning algorithm for descriptive, predictive, and perspective analysis;
- o ETL, database management/integration, and data pipeline automation;
- Serverless computing and report automation;
- o Interactive visualization and embed reports.

Machine Learning Engineer

2018 - 2019

University of Toronto, CA

- o Advanced machine learning algorithm for predictive analysis;
- o Advanced predictive model development for time-series analysis and image processing.

Data Scientist 2018 - 2019

City of Edmonton, CA

- o Machine learning application in energy consumption prediction;
- Data analytics for sustainable energy utilization;
- o Advanced predictive models for GHG emissions analysis.

Machine Learning R&D Engineer 2016 - 2018 Future Energy Systems, University of Alberta, CA o Advanced model development in energy conversion systems; o Advanced machine learning algorithm in signal and image processing; o Data mining and image classification analysis. **Data Scientist** 2014 - 2016 Air Quality Control Company, Tehran, IR o Advanced statistical analysis on air quality distribution (time-series analysis); o Predictive model development for hourly air pollution concentration estimation; o Data mining and signal processing of data acquisition systems. Computer Skills Programming: Python, SQL, JavaScript Data Base: MongoDB, PostgreSQL, Redshift, SQLAlchemy Big Data: Spark, MLib Cloud and Serverless Computing: AWS EC2, Lambda, S3, SES, Glue ML Libraries: Numpy, Pandas, Scipy, Statsmodels, Scikit-Learn, Karas, TensorFlow, XGBoost Visualization Modules: Plotly, Seaborn, D3.js BI Tools: Tableau. Power BI. Mode Version Control: Git Word Processing, Spreadsheet, Presentation, and Project Management: Word, LaTex, Excel, PowerPoints, Jira Selected Courses/Certificates Applied Data Science 2019 Harvard University 2018 Machine Learning Stanford University **Memberships** Kaggle Since 2018 Google **Boards and Committees** Vice President External 2016 - 2017 GSA. University Alberta. CA Graduate Representative 2016 - 2017 Council of Faculty of Engineering, University of Alberta, CA **Professional Recognitions** Best Oral and Paper Presentation Awards 2018 World Academy of Science, Engineering and Technology Mary Louise Imrie Graduate Student Award 2017 University of Alberta, CA Shell Canada Enhanced Learning Award 2017

Shell Canada