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, Intelligent Marketing, 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;
- 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;
- o 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, Lambda, etc;
- Advanced Git workflow;
- Project management, team work and leadership, storytelling and case study.

Education

MSc, Machine Learning
University of Alberta, CA

BSc, Mechanical Engineering
Sharif University of Technology, IR

Work Experience

Data Scientist Since 2019

Flashfood Inc. Toronto. CA

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

Machine Learning Engineer

2018 - 2019

2015

- University of Toronto, CA
 - o Advanced machine learning algorithm for predictive analysis on air quality distribution;
 - Advanced predictive model development for air pollution time-series analysis;
 - o Data mining and image processing for hourly air pollution concentration estimation.

Data Scientist City of Edmonton, CA O Machine learning application in corporate energy consumption prediction and optimization; Data mining and model development for sustainable energy utilization; Advanced predictive models for GHG emission rate analysis.	2018 -	2019
Machine Learning R&D Engineer Future Energy Systems, Edmonton. 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.	2016 -	2018
Technical Skills		
Programming: Python, SQL, JS		
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		
Selected Courses/Certificates		
Applied Data Science		2019
Harvard University Machine Learning		2018
Stanford University		2010
Memberships		
Kaggle	Since	2018
Google	5100	
Boards and Committees		
Vice President External GSA, University Alberta, CA	2016 -	2017
Graduate Representative Council of Faculty of Engineering, University of Alberta, CA	2016 -	2017
Professional Recognitions		
Best Oral and Paper Presentation Awards		2018
World Academy of Science, Engineering and Technology		
Mary Louise Imrie Graduate Student Award University of Alberta, CA		2017
Shell Canada Enhanced Learning Award Shell Canada		2017