Mohsen Dehghani

Data Scientist and ML Developer

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Portfolio: Deep Learning Page
GitHub Page
LinkedIn

With over six years of extensive experience in the field of AI, I hold a master's degree from Mila - Quebec AI Institute, specializing in Machine Learning. My robust background encompasses both pure and applied mathematics, including numerical linear algebra, probability, statistics, and computer science. I have six years of comprehensive experience in the field and am a results-driven professional proficient in translating advanced knowledge into practical Python-based solutions.

WORK EXPERIENCE

Nordikeau-Montreal

Data Science Specialist **2022 — Present**

- **Data mining techniques** include clustering, classification, regression, association rule mining, and anomaly detection. Machine learning algorithms are often applied in data mining to automate the extraction of patterns from data.
- **Data analysis techniques** involve inspecting, cleaning, transforming, and modeling data to discover useful information, draw conclusions, and support decision-making.
- **Designing and developing multivariable time-series** models for Machine Learning (ML) forecasting solutions using Deep Learning.
- Employing advanced Data Science methodologies to preprocess and analyze complex datasets, ensuring the robustness and accuracy of forecasting models.
- Proficient in utilizing Docker for streamlined and efficient deployment processes, enhancing the scalability and reliability of applications within the company.

KamNic Inc -Montreal

Data Science Specialist **2015— 2022**

- Implemented Machine Learning (ML) and Data Science techniques to enhance user experience and optimize website performance.
- Experience in deployment of SageMaker platforms for efficient model deployment and management.
- Successfully deployed a recommendation engine in data collections.
- Led and managed a team of 3 data scientists, overseeing the modeling process and ensuring successful project outcomes.

Polytechnique-Montreal

Data Science Specialist **2013 — 2015**

- Proposed a deep learning-based modulation classification method with 2D time-frequency signal representation.
- The end-to-end data lifecycle—expertly collecting, cleaning, and organizing data for both technical and non-technical stakeholders.

EDUCATION

Master Degree in Machine learning Specialist, *University of Montreal department of Mila* 2022 — 2023
Master Degree in Applied science, *Ecole Polytechnique Montreal* 2010 — 2013
Bachelor Degree in Mathematics, *Shiraz University, Iran* 2000— 2004

SKILLS

Tools and Languages	Python (PyTorch, Scikit, Pandas, Numpy, Matplotlib, TensorFlow, Sktime, XGboost, Mysql, Statsforecast, Neuralforecast), Forecasting, git,SageMaker, and AWS.
Deep Learning	CNN, RNN, and other advanced neural network architectures
Mathematics	Mathematical optimization, Mathematical Modeling, Strong mathematical aptitude, including numerical linear algebra, probability, and statistics
Data Science	Data analysis, collection, Data Preprocessing, and modeling
Statistical Methodology	Proficient in applying statistical techniques
Collaboration	Effective team collaboration and communication
Communication	English, French

Publication

Regularized interior-point method for linear least squares 2019

Awards

[Mitacs](#)   2022-2023

Natural Sciences and Engineering Research Council of Canada (NSERC)   2010-2013