

# Mansour Saffar Mehrjardi

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## Education

- **M.Sc. in Computer Science (Machine Learning)**  
Faculty of Computing Science, University of Alberta. Edmonton, Canada  
Current GPA: **4/4**  
Expected Graduation Date: January, 2019
- **B.Sc. in Electrical Engineering**  
School of Electrical and Computer Engineering, University of Tehran, Tehran, Iran, 2016  
GPA: **17.21/20 (3.68/4)**  
Thesis: Classification and Detection of Epileptic Patients using MRI Images of the Brain

## Work Experience

- **Data Analyst Intern, Finning Canada, May-August 2017  
Edmonton, Alberta, Canada**  
I was responsible for applying **machine learning** and **data mining** techniques on auction and rental data to get insights about customers and machinery.
  - Created a regression model for residual value prediction using **ensemble models**
  - Built a product recommender system using **association rule mining** techniques**Technologies:** Python, C++, Scikit-learn, XGBoost, Azure ML, Git, SQL, SSMS, Plotly, Tableau

## Technical Skills

- Programming Languages:
  - Expert in: **Python (NumPy, Pandas), MATLAB**
  - Intermediate in: **Java, C/C++, SQL**
- Machine Learning Libraries and Platforms: **Scikit-learn, XGBoost, LightGBM, H2O, Azure ML**
- Deep Learning Libraries: **Pytorch, Tensorflow**
- Big Data Analysis: **Apache Spark (Beginner), Hadoop, mrjob**
- Data Visualization: **Plotly, Tableau, Matplotlib, Google Facets**
- Optimization: **Hyperopt (Bayesian Optimization), SciPy**
- Tools: **Git, Microsoft SSMS, Eclipse**
- Operating Systems: **Linux (Ubuntu), Windows**

## Teaching Experience

- Reinforcement Learning (University of Alberta) Fall 2017
- Introduction to Foundations of Computation (University of Alberta) Fall 2016, Winter 2017

## Selected Projects

- (Ongoing) Integrating **context-aware dialogue generation** system with Ana, a personalized automated nursing agent, using **deep learning NLP** techniques. University of Alberta, Fall 2017
- Developing **Deep-Retina**, a deep learning model for pixel-wise segmentation of retinal images, in **Tensorflow**. Deep learning course, University of Alberta, Winter 2017
- Assessing residual values of heavy equipment machinery using different regression models implemented in **Microsoft Azure ML**. Data Mining course, University of Alberta, Winter 2017
- **Automated image segmentation** for retinal images of subjects diagnosed with Choroideremia disorder. Machine learning course, University of Alberta, Fall 2016
- Design and implementation of **Fall Detection** method in **MATLAB** using human pose analysis. Rehabilitation course, University of Tehran, Spring 2015

## Volunteer Works

- Chief Editor of "Biotech" journal, published by Student Branch of Iranian Association of Biomedical Engineers, University of Tehran, 2014-2015

## Hobbies

- Biking, watching movies, playing video games, and tweeting about AI (@msaffarm)