Amir Ghaderi

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Data Science Projects: https://github.com/amir-ghaderi

Summary of Qualifications:

- Experienced with machine learning and data mining algorithms in R and Python (knn, SVM, naïve bayes, bayesian networks, neural networks, random forest, decision trees, cross-fold validation, clustering, and dimensionality reduction techniques)
- Skilled in data visualization and dashboard development using tableau, Spotfire, Statistica, R (ggplot2), Python (Matplotlib), and JavaScript (D3.js, datatables.js, chart.js)
- Efficient with SQL, R, and Python for data wrangling, data exploration, and data analysis
- Skilled in natural language processing (text cleaning, stemming, sentiment analysis, text summarization, top modelling, term frequency, and text similarity algorithms)
- Hortonworks environment (Hdfs, MapReduce, Hive, Pig, Spark)
- Experienced in parallel computing using Hadoop and R
- Strong analytical, problem solving, detail oriented, organization, and decision-making skills
- Confident, articulate, and professional speaking and writing abilities

Education

- Ryerson University September 2016 - September 2017: MSc Data Science and Analytics
- University of Ottawa September 2011-2015: Honours BSc with specialization in Kinesiology

Work Experience

RBC Capital Markets IT (TCS Contractor), Data Scientist, June 2017 – Present

- Data wrangling, data exploration, and data analysis using python, Statistica, and R
- Natural Language Processing: Text Summarization (LSA), Topic Modelling (LDA, NMF), Sentiment Analysis, Term Frequency Word Cloud, Text Similarity Algorithms (tf-idf + cosine similarity)
- Data visualizations/dashboard development using Tableau, Spotfire, Statistica, JavaScript, and python
- Established data pipelines with Databases (mysql, Oracle, Sybase) and APIs
- Supervised/Unsupervised Machine Learning using python and Statistica
- Presenting at Internal RBC conferences/events RFuture (Manhattan), GMIC (Toronto), GMIC (New Jersey), DNA Silo Busters (Toronto)
- Development of Stella the Chabot (predictive, descriptive, and prescriptive modelling)
- Meeting with internal clients and various financial stakeholders

Achievement: (1) Successfully submitted 2 patents under my name for the technology behind Stella the chatbot. (2) Automation of the Margin Call process with collaboration from the operations engineering team. Resulted in an increase in operational efficiency in production.

Health Canada, First Nations and Inuit Health Branch, Program Officer, DGO, April 2015 – September 2016

- Reviewing documents on current and emerging issues, including briefing materials, position papers, speaking points, and policy research
- Participating in the development of policy positions for the Senior Policy Advisor
- Providing analysis and interpretation of policy options
- Drafting internal and external correspondence, including emails, briefing notes, and memoranda
- Presenting projects at Director and Director General level meetings

Achievement: Drafted a Briefing Note to the Minister of Health (Dr. Jane Philpott).

Health Canada, Scientific Regulator (Student), Marketed Health Products Directorate, Medical Devices Group, January 2015 - April 2015

- Responsible for the scientific assessment of medical devices
- Analyzing medical device incident reports
- Determining whether a medical device was at fault and providing scientific justifications
- Hosting workshops and presentations on how to create scripts using Visual Basics

Achievement: Developed a new innovative approach to medical device incident reporting, which increased operational efficiency by 50%.

Correctional Service of Canada, Junior Data Analyst (Student), Training Assessment Team, May 2014 – December 2014

- Evaluating the effectiveness of the Performance Management Program (PMP) national wide
- Drafted written evaluation reports with recommendations, conclusions, and descriptive statistics
- Drafted various documents such as project plans, implementation reports, executive summaries and presentations
- Determining trends and relationships from qualitative and quantitative data

Achievement: Developed a recommendation report for the Federal Government's employee performance evaluation system (Performance Management Program).