Ali Saeed

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Highlights of Skills:

Languages: Python, R, SQL, C++, C, Javascript, HQL, HTML, CSS, pySpark

Softwares: Tableau, D3.js, SAS, Spotfire, ElasticSearch, Kibana, Mozenda, Advanced Query Tool

Frameworks: IBM Netezza, SAP Sybase, Postgre SQL, IBM DB2, MongoDB, Amazon Redshift, Hadoop

Work Experience:

BMO Financial Group -- **Big Data Analyst| Advanced Analytics| Jan 2018 – Present**
Technologies: Hadoop, Hive, Spark, SAS, SQL, D3.js, tableau, PySpark

- Investigating series of interactions b/w customers and BMO to determine causes of engagement and attrition
- Analyzing clickstream data for positive and negative attrition and use predictive modeling for customer retention
- Introduced D3.js graph visualization to the team and building custom reusable graphs for analysis
- Assisting in migration from HQL to PySpark for Hadoop

BMO Financial Group -- **Junior Data Scientist| Tech & Operations| May 2017 – Dec 2017**
Technologies: Tableau, Elastic Stack, Python, R

- Improved accuracy and efficiency of analyzing incident tickets by 85% through natural language processing
- Streamlined the process of studying trends and detecting anomalies by creating a semi automated dashboard based on STL decomposition using ElasticSearch and Kibana
- Reduced resolution time to 7 seconds for helpdesk by creating an unsupervised machine learning algorithm to cluster text using K-means clustering and Affinity Propagation
- Performed predictive analysis on ATM machines using K- NN and SVM supervised models to predict ATM failures per component level with an accuracy of 72% and further improving the process

National ProStaff -- **Lead Consultant| E-Commerce & Data Warehousing| Aug 2016 – Dec 2016**
Technologies: Python, MySQL, HTML, CSS, Mozenda

- Designed a Relational Database Template to augment data retrieval & management
- Performed QA testing using agile methodology and prepared JIRA reports
- Led the implementation process of products & clients; ensuring successful onboarding

M.B.E Avalon -- **Marketing Analyst | Lead Generation| Aug 2015 – Dec 2015**
Technologies: R, Microsoft Office, Salesforce

- Developed regression model to analyze potential risks of introducing new product in certain areas
- Maintained client database locally on Excel and in the cloud using Salesforce

Projects:

Hand Writing Recognition – Urdu Language
- Collaborated in development of a handwriting recognition algorithm for Urdu language

Web Scrapper
- Designed a script to scrape product data from thousands of e-commerce websites

Excel Image Downloader
- Created an interactive software that downloads images in bulk, renames and inputs them into Excel tables

Game of Tetris
- Developed the game Tetris using Object Oriented Programming techniques in C++

Education:

- University of Waterloo | Bachelors of Computer Science | Major: Data Science

Achievements:

- **Outstanding** evaluations for all previous co-ops
- UW President's award and UW Intl Scholarship
- 92 score in the Euclidean Mathematical Contest