

Mehdi Kimiaei Asadi

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Executive Profile

Seeking a work opportunity to combine my knowledge of Statistics, Data Science, and Machine Learning with my analytical and programming skills.

- Ability to work in a fast-paced environment.
 - Proficiency with Big Data tools (Hadoop and Spark).
 - Proficiency with Amazon Web Services (S3, EC2, and EMR).
 - Proficiency with Databricks (cluster computing platform using EMR).
 - Proficiency with Machine Learning Algorithms (Classification and Clustering).
 - Proficiency with Data Visualization tools (Tableau, Power BI, and D3 Visualization).
 - Proficiency with Database Management Systems (SQL Server, MySQL, Teradata, and Oracle).
 - Proficiency with Snowflake and Redshift (cloud-based database management systems using cluster computing).
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Technical Skills

- **Programming Languages:** Python - R - SAS - C++ - Visual Basic.
 - **Business Intelligence:** Tableau - Microsoft Power BI - Microstrategy.
 - **Database Management Systems:** Snowflake - Redshift - Teradata - Oracle - SQL Server - MySQL.
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Professional Experience

Principal Data Scientist

June 2018 – Present

Capital One HQ Office, McLean, VA

- Designed a prototype and developed the first account-level loss forecasting model for Walmart credit cards predicting the expected loss value in next statements. Scripted in R (Sparklyr) for data preprocessing part and Python (sklearn) to train the models.
- Trained a classification model predicting the probability of being default (pd model) for US credit card customers. Trained the model on Databricks (cluster computing platform) and used Spark capabilities in Python (PySpark).
- Developed an account-level loss forecasting model (severity model) for US credit card customers reading data directly from Snowflake (cloud-based data source) and feeding the prediction engine automatically. This improvement reduced the datapull running time from 6 hours to less than 3 hours. Coded in R, Python, and SQL languages running on EC2.
- Designed and generated automated input data validation reports using R Markdown. These reports help model owners and the quality assurance team to validate the input data. This service reduced the required time for creating the same reports with more than 95%.

Senior Data Scientist

June 2017 – June 2018

Capital One HQ Office, McLean, VA

- Designed and developed an R package for internal usage to facilitate prediction and forecast modeling. More than hundred data analysts use this package every day to train and implement their models. This helped the entire team to have consistent models.

- Performed an R&D project about taking advantage of Hadoop, Spark, and Big Data techniques using Amazon Web Services (distributed computing by EMR cluster) and Databricks. Ended up with a new approach to deal with big datasets using these tools. The developed models decreased the running time for specific gigantic tasks from days to minutes.
- Implemented new Small Business Banking loss forecasting model in Python, presented to the business team to make sure they know how to use the model in the best possible way. Used AWS EC2 to run the model regularly (once a month).
- Developed a segment-level loss forecasting model for Small Business Banking (SBB) based on available loan data since 2008. This model has 20% less variables (complexity) and is more accurate compared to the previous model. Used AWS S3, EC2, and Python to develop and analyze this model.

Data Scientist

January 2017 – June 2017

Cvent HQ Office, McLean, VA

- Innovated a machine-learning application to assign submitted requests to proper agents in the Helpdesk team. This application automatically assigns tickets to technicians in the Helpdesk team and reduces dispatching time to less than a minute. Used Python and Weka to develop this application.
- Designed, implemented, and developed server-side machine generated alarms to improve organizational efficiency for the Helpdesk team. This system significantly improved our customer satisfaction level as well as number of resolved issues.

Data Analyst

February 2016 – December 2016

Cvent HQ Office, McLean, VA

- Designed and generated an online portal to help employees find a solution for their inquiries before submitting a ticket to the Helpdesk team. This portal reduced the number of created tickets by 30-40 percent. Classification algorithms used in this and coded by Python.
- Created executive dashboards representing efficiency of different services provided in the Enterprise Service department. Scripted with Python to blend different data sources and used Tableau and Power BI at the visualization layer.
- Generated automated reports by aggregating several data sources to predict the company's need for new hiring. Coded by R for data analytics part and designed Tableau reports presenting the results.
- Deployed a live wallboard showing company-wide usage of communication tools. Scripted with Python to take relevant data from API's, stored them into a MySQL database created by myself and then visualized the output by Tableau.

Data Analyst and DBA Intern

August 2015 – December 2015

FOCUS HQ Office, Washington D.C.

- Innovated time-saving, robust student data-intake system that automated database update functions, enabling new information to be automatically populated.

Research and Projects Experience

- **Master's Thesis:** Event detection, extraction, and classification of more than 500K sentences based on Supervised Machine Learning Algorithms. (*Environment:* Python)
- **Database Project:** Database designing, creating, and development for alumni networking and sharing resources. (*Environment:* Oracle)

Education

Certification in Machine Learning

December 2016

University of Washington – Seattle, WA

Masters in Statistics

December 2015

George Washington University – Washington D.C.

Bachelor's in Industrial engineering

June 2013

Sharif University of Technology – Tehran, Iran