Homa Almasieh . Jarvis Consulting

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Skills

Proficient: Java, Linux/Bash, Machine Learning and Data Analytics, Statistics, RDBMS/SQL, Tableau, Agile/Scrum, Git

Competent: Pandas, Numpy, Scipy, Scikit-Learn, DHTML/CSS

Familiar: R, APIs, Tensorflow/Deep learning, Flask, Google Cloud Platform(GCP)

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_HomaAlmasieh

Cluster Monitor [GitHub]: Implemented a Monitoring Agent on a node/server within the linux cluster to collect the hardware specifications and monitor the cluster node resource usage in real time. This Monitoring Agent contains a PostgreSQL server installed within a Docker container that collects information submitted through bash scripts installed on each node.

Core Java Apps [GitHub]:

- Twitter App: Curabitur laoreet tristique leo, eget suscipit nisi. Sed in sodales ex. Maecenas vitae tincidunt dui, et eleifend quam.
- JDBC App: Curabitur laoreet tristique leo, eget suscipit nisi. Sed in sodales ex. Maecenas vitae tincidunt dui, et eleifend quam.
- Grep App: Curabitur laoreet tristique leo, eget suscipit nisi. Sed in sodales ex. Maecenas vitae tincidunt dui, et eleifend quam.

Springboot App [GitHub]: Not Started

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Spotify Analysis [GitHub]: Colaborated in a team of five to determine what features impact the Popularity index of any given song on Spotify using Python. By analyzing various physical features of a song as well as some peripheral features, we look to identify a pattern within how a song garners a successful Popularity index. We have created a machine learning model that can predict the popularity of a song based on these features.

Credit Risk Analysis [GitHub]: Used the credit card credit dataset from LendingClub, a peer-to-peer lending services company, I applied oversample the data using the RandomOverSampler and SMOTE algorithms, and undersample the data using the ClusterCentroids algorithm. Then, I used a combinatorial approach of over and undersampling using the SMOTEENN algorithm. Next, I compared two new machine learning models BalancedRandomForestClassifier and EasyEnsembleClassifier that reduce bias. Lastly, I evaluated the performance of these models to be used to predict credit risk.

Spotify Analysis [GitHub]: Processed the dataset in order to compile, train, and evaluate the neural network model, using Pandas and Scikit-Learn. Designed a binary classification model to analyze and classify the success of charitable donations, using TensorFlow.

Professional Experiences

Data Engineer, Jarvis (2021-present): Worked on various data projects involving Linux, Bash, Docker, Postgres, Java, and Spring Boot. Followed the scrum agile methodology and used Git and Git Flow in every project. Assisted others in project-related issues, and held daily scrum meetings as a scrum leader.

College Instructor, Vaughan College (2017-2021): Worked on various data projects involving Linux, Bash, Docker, Postgres, Java, and Spring Boot. Followed the scrum agile methodology and used Git and Git Flow in every project. Assisted others in project-related issues, and held daily scrum meetings as a scrum leader.

Associate Research, Ryerson University (2015-2017): Designed a Simulation of energy efficient equipment and Optimization of single house load management and energy generation.

Assistant Professor, Isfahan University (2003-2015): Expertised in all areas of applied mathematics including but not limited to Numerical Analysis, ODEs, PDEs, Finance mathematical modeling, Stochastic calculus, Operational Research, Integral equations, Linear Algebra, Numerical integration and Numerical derivatives.

Education

Azad University (2005-2010), PhD of Applied Mathematics (Integral Equations), Mathematics

Yazd University (2001-2003), Master of Applied Mathematics (Optimal Control), Mathematics

Isfahan University (1997-2001), Bachelor of Applied Mathematics, Mathematics

Miscellaneous

- Data Analytics- University of Toronto (2021)