Mohammed Rahman

(310) 256-7477   morahmans@outlook.com   https://www.linkedin.com/in/mo-/   https://github.com/morahman97

Experience

Data Engineer - Capital One   August 2020 - Present

- Designed, refactored, and optimized internal data pipelines and infrastructure used for marketing and services for refinancing customer loans
- Improved the efficiency of Python scripts that perform ETL operations and data quality checks on S3 data by optimizing operations, rewriting functions, and updating API usage
- Created multiple datasets by converting raw JSON stream data to Snowflake SQL tables in real time for consumption by data scientists and business analysts
- Developed Tableau dashboards that use Snowflake data for; analyzing performance of marketing designs, tracking flow of users through websites to calculate customer drop-off, etc.

Machine Learning Engineer Intern - American Express   June 2019 - August 2019

- Incorporated machine learning on a web application that visualizes financial report data for clients by identifying categories of expenses that clients can most optimize
- Extracted report data from Hadoop clusters and labeled data through active learning techniques and consulting analyst experts to classify most uncertain samples

Projects

What's Ticking on Reddit? - Live Data Analytics Dashboard   February 2021 - Present

- Created a full stack interactive web application that leverages Reddit API streams to track the number of times stock tickers appear on Reddit in real time
- Processed and migrated stream data by creating an API with GET and PUT functions
- Rendered live figures with Plotly Dash to handle URL queries and fetches processed API data

Decentralized Social Media - Ethical Data Analysis   January 2020 - March 2020

- Investigated data privacy issues in popular social media platforms by analyzing datasets built on compromised social media data and identified safer alternative platforms
- Discovered most popular communities in both popular and alternative platforms, and communities with large overlap through text analysis of API query results
- Examined growth over time on alternative platforms by regularly scraping community data

San Diego Car Accident Analysis - Data Analysis and Visualization   January 2018 - March 2018

- Analyzed logistical and geospatial data regarding car accidents to visualize collision patterns and develop solutions for reducing car accident rates in San Diego
- Presented findings at the opening of the Halicioglu Data Science Institute, sparking interest from City Office of San Diego to collaborate on the project

Education and Certifications

AWS Certified Solutions Architect [AWS SAA-C02]   December 2020

- Valid 12/09/20 - 12/09/23

University of California, San Diego   September 2015 - March 2020

- B.S. in Computer Engineering. Upper Division Major GPA - 3.645

Skills

Languages: Python, SQL, Javascript, HTML, CSS, Shell Script, React Native
Technologies: Snowflake, AWS S3, EMR, IAM, Jupyter Notebook, Git, GitHub, Linux
Libraries: Pandas, NumPy, BeautifulSoup, Plotly, Matplotlib, Flask
Courses: ML for Art, Data Analysis, Data Science, Recommender Systems, Algorithms, Data Structures