Omar Choudhry

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Experience

Conversant LLC   Chicago, IL
Associate Data Solutions Engineer – Data Warehouse   June 2019 – Present
- Responsible for data ingestion into Greenplum and Postegres Databases and data audits between these clusters
- Refined Spark resource allocations to efficiently distribute data processing efforts for HDFS data loads
- Performed data transformations and loads to multiple targets while maintaining metadata and data integrity

Data Analytics Rotational Program   June 2018 – June 2019
- Developed postegres SQL functions for data pipelines and deployed automation scripts to productionize them
- Led an effort to overhaul a KPI for 100+ clients by creating new infrastructure and using persistent data
- Used client goals to formulate custom analyses and recommendations that aim to deliver specific strategy

AbbVie Pharmaceuticals   Champaign, IL
Rapid Application Development Intern   March 2017 – May 2018
- Created a dashboard to display and navigate clinical trial data concerning flagship drugs for the medical directories team
- Designed dynamic single page applications for various areas within the company including pharmacovigilance
- Utilized Angular.js and HTML+CSS, in addition to charting libraries such as D3.js, Fusioncharts.js, and HighCharts.js

Education

University of Illinois at Urbana-Champaign, IL   August 2014 – May 2018
Bachelor of Science in **Statistics** *with minors in* **Computer Science and Informatics**   GPA: 3.62/4.00 Dean's List
Coursework: Applied Machine Learning, Advanced Data Science, Data Structures, Applied Methods of Statistics, Applied Regression and Design, Text Information Systems, Numerical Methods, Advanced Data Analysis, Data Management

Projects

Facebook Messenger Analysis - https://github.com/omachowda/MessengerAnalysis   **December 2018 - May 2019**
- Developed an R script that intakes a JSON file of FB messenger conversations and outputs usable data and messaging insights
- Performed data pre-processing to load raw data into a master data frame that was leveraged for the entirety of the project
- Managed memory and processing constraints associated with large scale data processing by considering algorithm efficiency

Income Classification (Support Vector Machine) - https://github.com/omachowda/IncomeSVM   **February 2018 - April 2018**
- Trained an SVM model to classify household income based on 6 demographic/lifestyle attributes
- Researched the functionality of the existing algorithm during implementation and modeled for run time efficiency
- Presented my work to an audience interested in applications of the project by explaining the algorithm and conclusions

Skills/Interests

- **Python** and **R** (Advanced) – Knowledge of Scikit learn, NumPy, Pandas, SciPy, and matplotlib modules
- **SQL** (Advanced) – Adept with all statements and clauses, awareness of runtime efficiency, capable in writing functions
- **Data Engineering** – Experience with **Hadoop**, **Spark**, **MongoDB**, and **Data Warehousing** practices
- **Programming Fundamentals** – Data structures, computer architecture, algorithms, Object Oriented Programming, recursion/algorithm analysis, and Big O notation in **C++,** and **Java**
- **Data Science** – Knowledge of machine learning related techniques such as PCA, KNN, SVM, and regularization as well as NLP/text analysis concepts

Campus Activities

- **Association of Data Science and Analytics** – Participated in workshops and worked on data projects to develop skills including MongoDB, Hadoop, SQL, and Spark