Jacob Goffin

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Work Experience

Research Fellow, Accountability Counsel   **Oct 2019 - Present**

- Created web-scraping scripts using Selenium to pull human rights complaint data from various financial development institutions. Included pulling and storing thousands of pdf documents.
- Data powered an online platform (Django web-app) in which researchers and communities can access open data on human rights complaints. Additionally, built flexible document search functionality into the platform (powered by Haystack & ElasticSearch).

Business Intelligence Analyst, Uber   **Sep 2018 - May 2019**

- Led design and implementation of a "Global Weekly Marketing Dashboard". Enabled performance marketers to track ad spending towards budget goals & identify strong-performing marketing channels
- Built data sources and dashboards via Tableau, SQL (Hive and Presto)

Analytics Consultant, Tableau   **Dec 2014 - Aug 2018**

- Specialized in consulting engagements that required data & dashboard performance optimization (effectively visualizing large or complex datasets). Worked mainly with larger Enterprise companies in the Bay Area

Education

University of San Francisco - MSc in Data Science   **Jul 2019 - Jul 2020**

Coursework: Machine Learning, Design of Experiments, SQL, Deep Learning, Time Series Analysis, Distributed Computing

University of Washington - BS in Applied Physics & Mathematics   **Sep 2010 - Jun 2014**

Coursework: Modern Algebra, Linear Algebra, Data Structures & Algorithms, Database Systems, SQL

Projects

- **Healthcare Modeling**: Built an LSTM model in PyTorch to predict metrics for critically-ill patients
- **Music with Machine Learning**: Developed a web-application that leveraged Magenta (Google ML Platform) to process MIDI files and produce new music samples
- **Implementations:** Built Random Forest, Naive Bayes, Kmeans implementations from scratch in Python

Skills

Programming Languages: Python, Javascript

Data Science/Machine Learning: Scikit-learn, Numpy, Pandas, PyTorch, NLTK, Selenium, Beautiful Soup, Tableau, ggplot2, Jupyter, Apache Spark, A/B Experiments, Multi-Armed Bandits

Programming Tools/Frameworks: AWS CLI, Git, REST APIs, PyCharm, Flask, Django, CSS