Michael Kung

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Self-motivated Data Analyst who possesses a "get-things-done" attitude and thrives under-pressure. Experienced in handling and analyzing large datasets in order to drive successful business solutions. Proficient in machine learning, statistics, and analytics. Known among co-workers and team members for stellar problem-solving and communication on large-scale projects.

SKILLS

- Data and Quantitative Analysis
- Predictive Modeling / Machine Learning: Regressions, Classifications, Clustering, etc.
- Predictive Modeling
- Big Data Queries and Interpretation
- Data Mining and Visualization Tools
- Tableau

- ETL: Alteryx
- Statistics: Modeling, Forecasting, SPSS, R
- Programming: Python, Numpy, Pandas, Matplotlib
- Databases: SQL, MongoDB, PostgreSQL, Teradata
- Web Visualization: HTML, CSS, Bootstrap, Dashboarding, JavaScript, Leaflet, Plot.ly, d3
- Advanced Excel: Pivot Tables, VBA Scripting, Macros

EDUCATION / LICENSESES / CERTIFICATIONS

Data Analysis and Visualization Certificate: University of Texas at Austin McCombs School of Business, Austin, TX
Master of Science: Applied Cognition and Neuroscience: University of Texas at Dallas, Richardson, TX
Bachelor of Arts: Biology; Minor: Business: Texas A&M University, College Station, TX
Machine Learning | **Stanford University,** Coursera, Issue Date: June 2019, [Credential ID](#): HSQDYHPE4W6J

PROJECTS

[Medical Insurance Charge Regression Modeling](#) | **[GitHub](#):** In this notebook, I performed extensive exploratory data analysis and explore several types of Regression models (Multi Linear Regression, Polynomial Linear Regression, Decision Tree Regression, Random Forest Regression) on a Medical Cost dataset found on Kaggle to predict medical costs based on several features.
- ***Responsibilities:*** Performed all exploratory data analysis, train/test all Regression Models, compare all models.
- ***Tools / languages used:*** Python, Scikit-Learn, LabelEncoder, OneHotEncoder, numpy, pandas, matplotlib, seaborn.

[Cinematrix](#) | **[GitHub](#):** A movie recommender app using a machine learning algorithm, matrix factorization, to recommend 5 movies a user has not watch. These recommendations are based on a user's previous movie ratings and other user ratings.
- ***Responsibilities:*** Tested multiple machine learning models. Utilized matrix factorization to make movie recommendations. Created Python script to show top 5 recommended movies. Generated the flask app to display the recommended movies, user data, and the web scrapped movie information. Hosted the app on to Heroku.
- ***Tools / languages used:*** Python (Pandas, NumPy, Flask, JSON), Web Scraping**,** HTML/CSS**,** Bootstrap**,** Tableau

[US Demographic Interactive Visualization](#) | **[GitHub](#):** An interactive visualization of state population density and city demographic. App uses multiple visualizations and popups to summarize data gathered from the US census API.
- ***Responsibilities:*** Data cleaning and upload to database. Created the HTML dashboard. Bound JavaScript popup with city demographic data to Leaflet dots. Flask app routes.
- ***Tools / languages used:*** Python (Flask), JavaScript (Plot.ly, d3, Leaflet), SQLite, HTML/CSS, Bootstrap

EXPERIENCE

Data Analyst | Whole Foods Market | Sept. 2019 – Currently
- Data engineering from multiple databases (PostgreSQL and Teradata) for reporting, data analysis, and modeling.
- Write advanced SQL queries using multiple tables, nested queries, temporary tables, common tables expressions, etc.
- Develop Tableau reports, dashboards, and visualizations.
- Perform ETL (Explore, Transform, and Load) and data analysis with various tools (Alteryx, Python, SQL, etc.).
- Scripting and modeling in R.
- Provide ad hoc data engineering solutions.

System Administrator + Office Manager | Fidelity Dental P.A. | May 2017 – Sept. 2019
- Spearhead new patient acquisitions. Increased number of monthly new patients by 400% through data analysis and marketing strategies.
- Develop and structure a MySQL database to collect and analyze practice data such as production/collection of each dentist and patient demographics.
- Generate data visualizations to report practice performance, financial analysis and profit/loss reporting.
- Install/maintain/configure practice management software and computers.

Graduate Student Researcher | University of Texas at Dallas | Jan. 2016 – May 2017
- Utilized SPSS to run statistical analysis to analyze the relationship between neurochemistry and behavioral data.
- Conducted and created visualizations for data presentations and data analysis using advanced excel.