JOHNNY KILE

DATA SCIENTIST

Details

267.991.6350
johnnykile@gmail.com

Links

Portfolio
GitHub
LinkedIn

Skills

Python (NumPy, Pandas, Scikit-learn)

SQL (MySQL, Postgres)

Git / GitHub

Bash / Zsh

Tableau

Microsoft Excel

Licenses & Certifications

Data Scientist in Python Path (Dataquest.io)

Data Engineer Path (Dataquest.io)

Data Analyst in Python Path (Dataquest.io)

Git & Github Bootcamp (Udemy)

Data Warehouse Fundamentals (Udemy)

Linux Command Line Bootcamp (Udemy)

Professional Engineer (PE)

Projects

Property Value Prediction Model Analysis

- **Goal**: Determine whether data related to permits issued in prior years will benefit machine learning models designed to predict future property values within a given zipcode.
- **Process**: Processed and analyzed data files from multiple sources using python within Jupyter Notebook. Used feature engineering and selection to develop models and compared errors (RMSE) of their predictions with and without permit data inclusion.
- **Conclusion**: Permit data inclusion reduced the error of the models that were predicting yearly home values and year-over-year changes by 4-7% compared to models without permit data.

United States Congress Age Analysis & Visualization

- **Goal**: Determine the trends of the median age of the United States congress over time and the change in the age range distributions and present findings with data visualizations.
- **Process**: Processed data files using python and the pandas library and exported data for use in Tableau Public. Used Tableau Public to create a data visualization dashboard to assess trends then wrote a summary of findings.
- **Conclusion**: The median age of the United States Congress was found to have been steadily increasing from 1980 (51) through 2022 (61), as the proportion of Congress with members aged 65+ has steadily increased.

Experience

Senior Consultant, Rimkus, Hybrid / Philadelphia

MAY 2021 — PRESENT

I work for an international consulting firm as the primary structural engineering forensic consultant within the local office investigating various issues at residential, commercial, and industrial properties. After 6 months in the role I was selected to peer review other experts' reports, and after a year I was promoted from consultant to senior consultant. My responsibilities include the following:

- Perform site inspections at properties to identify problems and collect data
- Write technical reports relaying the problems, causes, and solutions to a client base of business owners, lawyers, and insurance adjusters
- Manage individual projects end-to-end from client communication, budgeting, and scheduling through delivery of technical report and invoices
- Straddle multiple teams within the firm across a range of unique expertise

Project Engineer, DHLA, Hybrid / Los Angeles

APRIL 2016 — MAY 2021

I worked within a small engineering firm that designed custom homes in the Los Angeles area. These structures ranged from garage conversions, up to 50,000 SF multi-level hillside properties. My responsibilities included the following:

- Managed projects from the conception level through the completion of construction, coordinating with in-house staff, stakeholders, and other trades over the project's lifespan
- Utilized applied statistics, optimization, and data visualization to create calculation packages for a variety of structures and loading conditions
- Facilitated a transition from in-office work to remote work for the team that had no prior protocol in place

Education

B.S. in Structural Engineering, Drexel University, Philadelphia

2014

Minors: Construction Management and Business

Relevant Coursework: Calculus I-III, Linear Algebra, Multivariate Calculus, Evaluation and Presentation of Experimental Data, Statistical Analysis.