Billy Houseman
Data Analyst

Contact

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Tartu, Estonia

Education

2016 - 2020
BSc Environmental Science
University of Southampton
2:1

2020 - Current
MSc Data Analytics for Government
University of Southampton
Current Average: 83%

Key Skills

Advanced R, SQL, and Python

MS Excel

PostgreSQL Database Management

Data Modelling

Data Science

Relevant Courses

Probability and Statistics

Intermediate R programming

SQL fundamentals

Regression modelling

Data Science Foundations

Profile

Driven and determined data analyst with the technical skills to effectively conduct a statistical analysis, the critical thinking skills to identify the required data to tell the underlying stories within the data. And the communication skills to present these findings in an engaging and inclusive format to help business make data driven decisions. 1

Experience

April 2021 – January 2022
Statistical Officer • Welsh Government • Remote

- Worked both within and across departments in the collection, production, and communication of official, national statistics.
- To do this I used SQL , Microsoft Management Studio, and Microsoft Access to extract and transform thousands of data points per week into excel.
- Using Microsoft Power BI to create dashboards of this data
- Was given the opportunity to take a leading role in the development of a local housing market assessment tool in excel to be used by the local authorities within the country of Wales.
- This tool used SQL to extract data from a database along with user input for current populations to perform housing need projections in a self-contained Excel application.
- Continuous focus groups were used to interact with the stakeholders in order to translate their needs into data driven solutions.

Projects

Pagila data pipeline (ETL) • Project Link

- Within this project I created an automated ETL pipeline to extract data from a Postgres database and perform some automated data calculations and checks.
- This project was created for a fictional scenario, in which a DVD rental business would like to explore their data using automated scripts.

Cluster Analysis • Project Link

- Created an ETL pipeline to extract data using web scraping, API's and CSV files to obtain over 150,000 data points. This data was then processed and stored in a Postgres database using a STAR schema to be used in my cluster analysis.
- Produced an interactive report containing detailed explanations of my process and a thorough exploration of the data and results.
- Additionally, I created an interactive dashboard for this project found here. This was created using programming in R shiny. All links to my projects are also on my portfolio.