Kay Royo

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SUMMARY

A self-motivated, assertive, and strategic Data Analyst/Scientist with comprehensive analytical, logical, and communication skills. An avid learner who is keen on utilizing technical tools and methods to solve and simplify complex problems. Adept at working independently and collaborating with teams across multiple functions. Highly detail-oriented and versatile with 3 years of experience in research, data acquisition, data wrangling, and data analysis. Exceptional and effective time management, decision-making, and organization skills continuously enhanced by academic and professional experiences. Capable of building long-lasting relationships with clients and colleagues at all organizational levels. Driven to explore various strategies and methods to provide high-quality work and exceed expectations.

TECHNICAL SKILLS

Programming Languages: R, Python, SQL, VBA, C++
Web Technologies: JavaScript, HTML5, CSS3, AJAX, jQuery, D3, NodeJS, JSON, Plotly, Leaflet, Bootstrap, API
Database Management Systems: PostgreSQL, MongoDB
IDEs: Visual Studio, RStudio, Jupyter Notebook, JupyterLab, XCode, Adobe Photoshop
Software: Tableau, Git, ArcGIS, gINT
Office Tools: MS Word, MS Excel, MS Outlook, MS PowerPoint
Other: Hypothesis Testing**,** Regression Analysis**,** Web-Scraping, Regular Expression, Spark, Big-Data, Machine Learning, Hadoop/Hive, Pandas, ETL, Flask, Statistical Modeling and Analysis, Data Manipulation and Cleaning, Data Wrangling, Data Visualization, Data Analysis, Natural Language Processing, Natural Language Generation, Github, Jupyter Notebooks, Project Management, Technical Writing

EDUCATION AND CERTIFICATIONS

University of California – Davis September 2021 – May 2023
Master of Science (Statistics –Data Science Concentration)

ESRI – MOOC December 2020
Spatial Data Science Certificate

- A 6-week online course focused on data engineering and visualization, suitability modeling, pattern detection, space-time pattern mining, and object detection with deep learning.

University of California - Berkeley (Extension) August 2020
Data Analytics Certificate

- A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning

California State University – East Bay July 2019
*Bachelor of Science (Geoscience**)***

- Honor's and Dean's Listed
- Research Assistant (Department of Earth and Environmental Sciences)
- Event Coordinator (Earth and Environmental Sciences Club)
- Scholarship Award Recipient (East Bay Mineral Society)

PROJECTS

Word Wright December 2020
https://github.com/howec/wordwright | https://devpost.com/software/wordwright
The project aims to promote connecting with loved ones through an interactive story writing web application that uses a natural language generator to provide a story prompt based on a user's choice of writing style.

- Successfully implemented Natural Language Generator model and Data Cleaning

- Methods and Tools used: Natural Language Generator (NLG), SQL, Python, JavaScript, HTML, CSS, Bootstrap, Regular Expression, PyTorch, ETL for Data Cleaning, Web API, React

Music Genre Prediction August 2020

https://github.com/etarakci/music-genre-prediction | https://music-genre-prediction.herokuapp.com/

The project delves into the relationship between song lyrics, titles, artists, and genre using machine learning models that determine the prevalent words in the song lyrics to categorize a song into a genre.

- Successfully completed front-end tasks including interactive web development, web design, and front-end to back-end connection
- Methods and Tools used: Machine Learning (NLP & KNN), SQL, Python, JavaScript, HTML, CSS, Bootstrap, ETL, Web API, Heroku, Flask

US Homeless Population July 2020

https://github.com/kayannr/US-Homelessness |
https://mengye22.github.io/US-homelessness/master/templates/index.html

The project explores the homeless population and homeless shelter locations for each state in the United States. The final datasets generated after performing Web-scraping and ETL are loaded to its destination, a SQL database.

- Effectively performed ETL on the homeless shelter locations dataset that is scraped from the web and used Regular Expressions to clean gathered dataset. Designed an interactive choropleth map to display homeless population data for each state.
- Methods and Tools used: Web-scraping, Data Wrangling, RegEx (Regular Expressions), ETL, JavaScript, Python, HTML, CSS, D3, Leaflet

City Bike Analytics June 2020

https://github.com/kayannr/Citi-Bike-Analytics |
https://public.tableau.com/profile/kay.royo#!/vizhome/citibike_analytics/NYCBIKEANALYSIS

A Data Dashboard, Story, or Report that is created using Tableau, which includes variety of visualizations of aggregated data found in the New York City Bike Trip History Logs.

- Designed various visualizations for numerous types of analysis
- Tools used: Tableau

PROFESSIONAL EXPERIENCE

Graduate Student Assistant September 2021 – April 2022

UC Davis

- Assist faulty members by performing teaching-related duties in the Department of Biomedical Engineering and Graduate School of Management

Project Geologist September 2019 – June 2021

ATC Group Service LLC

- Modernizes and automates detailed technical reports associated with Phase II Environmental Site Assessments to present data to clients which results in 30% increase in productivity and successfully help maintain client relations
- Provides project planning and management assistance which lead to increase in efficiency and saving up to $1000 in project funds
- Analyzes historical subsurface environmental data to determine the locations for new soil vapor and groundwater water monitoring wells using Microsoft Excel

Research Assistant September 2018 – November 2020

CSU – East Bay

- Analyze scientific data gathered to determine the correlation between sediment deposition and the changes in sea level and climate in the San Francisco Bay Area

Geophysical Survey Intern June - July 2018

Canary Islands Volcanological Institute (INVOLCAN) and Geotenerife

- Efficiently acquired subsurface electromagnetic data by operating a Multi-Channel Geophysical Survey System and installing Magnetotelluric (MT) and seismic survey stations

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