# Kay Royo

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#### SUMMARY

A self-motivated and strategic Data Analyst with comprehensive analytical and communication skills. An avid learner driven by curiosity who is keen on utilizing technical tools and methods to solve complex problems and develop data-driven insights. Adept at working independently and collaborating with teams. Highly detail-oriented and solution-focused with experience in research, data acquisition, and data analysis. Capable of building long-lasting relationships with clients and colleagues at all organizational levels. Driven to explore various methods to provide high-quality work and exceed expectations.

### **SKILLS**

Programming Languages:R (Advanced), Python (Advanced), SQL (Advanced)Web Technologies:HTML5, CSS, Javascript, jQuery, D3.js, BootstrapDatabase Management:PostgreSQL, MongoDB, ERD, Relational DatabasesData Visualization:Tableau, ArcGIS, Plotly, Leaflet, Matplotlib, Seaborn

Data Collection & Cleaning: ETL, Web-Scraping, API, JSON, RegEx

Data Analysis: Statistical Modeling and Analysis, Hypothesis Testing, Regression

Analysis, Time Series Analysis, Exploratory Data Analysis, Text

Analysis

Machine Learning: SGD, NLP, NLG, kNN, Scikit-learn, PyTorch

Libraries: Pandas, NumPy, NLTK, SciPy, Statsmodels, PySpark, caret, forecast

IDEs: Visual Studio, RStudio, Jupyter Notebook, JupyterLab

Soft Skills: Collaboration, Communication, Adaptability, Problem-solving
Other: Git, GitLab, Github, MS office Suite, Databricks, Object-oriented

programming, Interactive reports, Technical writing, Project

management

## **EDUCATION AND CERTIFICATIONS**

#### University of California - Davis

09/2021 - 06/2023

Master of Science (Statistics – Data Science Concentration)

 Coursework: Time Series Analysis, Statistical Machine Learning, Artificial Intelligence, Statistical Data Science, Big Data and High-Performance Statistical Computing, Statistical Research Methods, Multivariate Data Analysis, Probability Theory, Mathematical Statistics, Data & Web Technologies for Data Analysis, Web Science Research Methods, Computational Statistics, Observational Studies

ESRI – MOOC 09/ 2020 – 12/2020

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)

02/2020 - 08/2020

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

09/2014 - 07/2019

Bachelor of Science (Geoscience)

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

#### **Graduate Student Assistant**

**UC Davis** 

- Provided effective teaching support for business analytics, accounting, and entrepreneurship courses in the Department of Biomedical Engineering and Graduate School of Management.
- Monitored and evaluated student progress, providing feedback and recommendations for improvement, resulting in increased student engagement and learning outcomes.

## **Project Geologist**

09/2019 - 06/2021

09/2021 - 12/2022

ATC Group Services LLC

- Collaborated with cross-functional teams to develop and implement environmental site assessments, ensuring compliance with regulatory requirements and project objectives.
- Generated and reviewed technical reports to ensure accuracy and consistency, providing high-quality deliverables to clients on time and within project scope.
- Implemented quality control procedures to monitor and ensure the accuracy of reports, resulting in improved data integrity and client satisfaction.
- Provided valuable project management support and achieved cost savings of up to \$1000.
- Maintained positive relationships with local regulatory agencies by utilizing effective communication and interpersonal skills, resulting in successful project delivery within project timelines.

**Research Assistant** 09/2018 – 11/2020

CSU - East Bay

• Conducted fieldwork and laboratory analysis, including sample collection and processing, data entry, and quality control checks, ensuring accuracy and completeness of data.

## **Geophysical Survey Intern**

06/2018 - 07/2018

Canary Islands Volcanological Institute (INVOLCAN) and Geotenerife

- Operated complex geophysical equipment and instrumentation with a high level of efficiency, ensuring accuracy and reliability of data collection.
- Collaborated with cross-functional teams to develop and implement data acquisition plans, ensuring adherence to project scope and objectives.

### **PROJECTS**

## **Popular Music Analysis**

03/2023

https://kayannr.github.io/top-hits/ | https://github.com/kayannr/top-hits

Analysis of popular songs across various countries that involves data collection using API, data wrangling, data visualization, descriptive and exploratory analysis, topic modeling, feature selection, predictive modeling, and presenting findings in an HTML-based report.

Methods & Tools: Python, RegEx, HTML5, NumPy, Pandas, API, Requests, NLTK

Sports Statistics 09/2022

https://github.com/kayannr/sportstats

Historical Olympics games data analysis that involves data wrangling, data quality assessment, data deduplication, data visualization, hypothesis testing, descriptive and exploratory analysis, and inferential analysis using graphical and statistical methods.

Methods & Tools: SQL, Databricks, Python, PandaSQL, Pandas, SQL Window functions

Word Wright 12/2020

https://github.com/howec/wordwright | https://devpost.com/software/wordwright

An interactive web application developed for Devpost Hackathon that includes a story prompt generator based on choice of writing style using a Natural Language Generator model.

 Methods & Tools: SQL, Python, PyTorch, JavaScript, HTML, CSS, Bootstrap, RegEx, ETL, Web API, React.js, Data Wrangling

#### **US Homeless Population**

07/2020

https://mengye22.github.io/US-homelessness/master/templates/index.html

An analysis of homeless population in the US showcased on an interactive website that involves data collection, data wrangling, ETL, and interactive visualizations

Methods & Tools: Web-scraping, RegEx, ETL, JavaScript, Python, HTML5, CSS, D3.js, Leaflet