ALEX BARBOUR

DATA ANALYSIS | VISUALIZATION | WRANGLING

PROGRAMMING

Python
JavaScript
R
API Interactions
Sci-Kit Learn
Keras
Spark

VISUALIZATION

Tableau
Plotly
Matplotlib
Seaborn
D3.js
Reveal.js
HTML/CSS

WRANGLING

Pandas
mySQL
SQLite
MongoDB
BeautifulSoup
Advanced Excel
Tableau

CONTACT

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REFERENCES

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Solution Architect-SE2
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PROFILE

Data and statistics enthusiast seeking new challenges and opportunities. I love interesting puzzles and exploring innovative solutions. I am a quick learner and I am always looking for a chance to learn something new.

PROJECTS

SPOTIFY RECOMMENDATION ENGINE
Role: Data collection and Machine Learning
Tech: Machine Learning, Spotify Web API, Scikit Learn, Flask, D3.js

We set out to build a machine learning model capable of generating song recommendations in real time based on user input, but we found model run times exceeded realistic wait times for the user.

ANATOMY OF MUSIC
Role: Project Manager, Data Collection, and Presentation
Tech: Spotify Web API, pandas, SQLite, Flask, Leaflet, D3.js, reveal.js

The focus of this project was to analyze which components of a song predicts popularity. I was responsible for data collection using Spotify's Web API, genre analysis, and integrating our JavaScript into a presentation using reveal.js.

EDUCATION

DATA ANALYTICS BOOTCAMP
The University of Kansas | 2018-2018

B.S. BIOCHEMISTRY
The University of Kansas | 2014-2018
Merits: University Honors Program

RESEARCH

RESEARCH ASSISTANT
Department of Pharmacology & Toxicology, KU | 2015-2016

FIELD TEAM MEMBER
Department of Ecology & Evolutionary Biology, KU | 2015