

Wrik Chakrabarti

Data Science

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Aspiring data scientist with experience in data visualization, statistical inference and predictive modeling, as well as model deployment and pipelines. Capable of gathering, cleaning, and testing data for significance to build an algorithm for the objective.

Skills and Certifications

- Google Data Analytics – **certified 2022**
- Data Visualization with R, R Markdown, Power BI, Tableau
- Data Cleaning with Python, SQL
- Statistical inference and significance testing
- Model deployment with AWS, Flask, R Shiny
- Predictive Modeling: Regression, neural networks, gradient boosting

Experience and Education

Cram Crew, Academic Consultant and Mock Exam Coordinator

Jan 2022 - Present

As mock exam coordinator, developed an automated system to **analyze, score, and record scantron data** into a database using **Python** and **SQL**. Developed reports using **R Markdown** detailing student performance and attendance.

University of Houston, Downtown/ BS. in Data Science

May 2020 - May 2024 (proj)

Projects

Academic Decathlon during COVID

https://wrikych.github.io/AD_EDA/

An exploratory data analysis of score performance in a popular nationwide scholastic competition throughout the duration of 2019-2022, hypothesizing that lockdown effects on school had similar detrimental effects on such programs. Utilizes data scraping, and cleaning, and bootstrap sampling techniques.

Spotify Song Recommender

https://github.com/wrikych/spotify_recommender

A flask-based app that recommends songs based on three songs input by the user. Accesses song data using a python-wrapped Spotify API client and tests it against a K-means clustering model trained on curated data. Still in progress – goal is to be able to access users' profiles and add songs to playlists.

Text and Wikipedia Summarizer

https://github.com/wrikych/spotify_recommender

A basic foray into extractive text summarization using word vectorization and TF-IDF, wrapped in a Flask App. Utilizes HTML scraping with python to pull text summaries directly from Wikipedia URLs. Built this for my use as a tutor to summarize a page of a textbook or pull quick notes about a topic for a student. Still very rudimentary – next goal is to be able to sort by Wikipedia header for more specific summaries.