SIBONGILE TOURE

Experience

Metis
Data Scientist   Sept. 2020 to Dec. 2020

Completed a 12-week accredited intensive data science bootcamp focused on Python programming, machine learning, statistical modeling, data visualization, project design, and communication. Devised four individual supervised and unsupervised machine learning models to implement objectives and build statistical models using a variety of data sources. Projects include:

Hit Predictor
- Used an extensive song list spanning from 1960 - 2019 to build an application that allows a user to input a song and classify whether or not it would be a hit based on a number of musical features such as tempo, time_signature, etc.
- Designed a Flask app that allows a user to enter a song from Spotify into the app to classify whether or not a song would be a hit
- Built Classifier model using the ensemble method, voting classifier with average voting. The models in the voting classifier include a GaussianNB, kNN, Random Forest, Decision Tree and Logistic Regression.

Metacritic Score Predictor
- Scrapped IMDb using BeautifulSoup to gather every Academy Award winning movie from 1980 to present day
- Built a Linear Regression Model to predict the scores of future Academy Awards contenders

Mood Based Music Recommender System
- Gathered over 80k songs ranging from 1921-2020 using the Genius API and a Kaggle Spotify dataset to create a Flask app that allows a user to generate a playlist based on a mood
- Built the recommender using the energy and valence feature from Spotify as well as Topics derived from Topic Modeling using Latent Dirichlet Allocation(LDA)

Book to Movie Recommender System
- Scraped IMDb using Beautiful Soup and IMDbpy to build a dataset of approximately 50000 movies from the year between 1950-2020 inclusive with features including the title, plot, directors and genres. Combined the dataset with a Goodreads best books dataset to use natural language processing to build a streamlit application that allows users to input a book and receive up to 10 movies that they may find interesting based on the book they inputed. Application also allows for the reverse. Build this recommender out by using a TF-IDF vector and cosine difference to find the nearest movies to the book based on the book descriptions and the movie plots.

Infosys
Technology Analyst (July 2020 - September 2020)   July 2020 to Sept. 2020
- Upon promotion to Technology Analyst continued on in my project as a Database Project Coordinator

Database Project Coordinator (Client Company-Web Analytics)
- Analyzed large sets of data from Tableau, Adobe Analytics and MSSQL and tasked to find any discrepancies between the data
- Wrote MSSQL scripts and Excel formulas to better analyze the data sets
- Worked in a cross-functional team across the United States and India

Senior Associate   July 2019 to July 2020

Database Project Coordinator (Client Company-Web Analytics)
- Analyzed large sets of data from Tableau, Adobe Analytics and MSSQL and tasked to find any discrepancies between the data
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- Worked in a cross-functional team across the United States and India

Associate   June 2018 to July 2019

.NET Developer
- Created an internal task-reporting tool that will allow managers to view and track the progress of projects that employees are currently working on and to allow employees to view and update their current projects. Created tool using C#, .NET framework, HTML/CSS, and MSSQL Server

Java Developer
- Worked on developing an internal web application using HTML/CSS, JavaScript, Spring Boot, Spring MVC, and MySQL, which emulates an insurance portal that allows users to login, register, and sign-up for different insurance plans

Capital One · Mclean, VA
Project Management Development Intern   June 2016 to Aug. 2016
- Facilitated, and ran scrum ceremonies for mobile development scrum team of 8 on an iOS application.

Goldman Sachs · Salt Lake City, Utah
Operations Summer Analyst- Operations Risk Management   June 2015 to Aug. 2015
- Coordinated globally with interns, line managers, and senior management to centralize information of internal websites.
- Proactively identified opportunities for streamlining the information.

Contact
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- SibongileT

Education

Howard University
BS Computer Science 2016

Skills

LANGUAGES
Python
Java
JavaScript
CSS
HTML
C#
SQL

LIBRARIES
Pandas
Scikit-learn
Numpy
Gensim
NLTK

MACHINE LEARNING
Regression Models
Classification
Natural Language Processing

VISUALIZATIONS
Matplotlib
Seaborn
Tableau

DATABASES
Microsoft SQL Server
PostgreSQL
MySQL

FRAMEWORKS
Flask
Django
Streamlit

Volunteering

Black Girls Code · Volunteer   Current
- Volunteer as a technical assistant periodically for different events held by the Black Girls Code NYC chapter

Girls Who Code · Facilitator and Club Founder
Brooklyn, NY
- Founded a Girls Who Code Club at Benjamin Banneker Academy in Brooklyn,NY
- Work with a group of girls introducing them to core computer science concepts