Stephen Williams

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EDUCATION

John Jay College of Criminal Justice, City University of New York (CUNY) New York, NY
Bachelor of Science in Applied Mathematics | Data Science Concentration Dec 2022
Computer Science Minor | Cum Laude, GPA: 3.74/4.00
Relevant Coursework:
Discrete Structures and Algorithms, Probability & Mathematical Statistics I, Probability & Mathematical Statistics II, Multivariate Analysis, Database and Data Mining, Data Analysis, Data Structures, Software Development, Machine Learning

SKILLS

Programming: Python, C++, R, SQL, HTML, CSS, JavaScript, Node.js, Express.js
Technologies: Jupyter Notebook, VS Code, Git/GitHub, PyCharm, Selenium, AWS
Certifications: Codecademy Learn HTML and Learn CSS (Aug 2022)

PROJECTS

Netflix-Top-Content, [https://github.com/deepankarck2/Netflix-Top-Content] Mar 2023 – May 2023
- Developed, remotely in a team of 3, a website dashboard to help users decide what to watch on netflix
- Scraped data from various websites and used gpt-3.5 to generate responses that provided users opinion on the movie or show, type of viewer who would enjoy this content, and list of similar media.

Vibify, [github.com/CTPFallGroupProject/Music-Analysis-Machine_Learning] Oct 2022 – Dec 2022
- Developed, remotely in a team of 3, a Streamlit application where users can upload song lyrics and receive a dashboard with the genre and valence of the song and the top 5 lyrically similar songs.
- Implemented 2 LSTM architectures for valence regression and genre classification using Python, scikit-learn and Tensorflow with a mean squared error of .05 and validation accuracy of 60% respectively.

Ukraine-Russia War Analysis, [github.com/Svalentinow/Ukraine-Russia-war-analysis] Mar 2022 – May 2022
- Performed EDA on Russian equipment losses and Tweets related to the Ukraine-Russia war
- Implemented Word2vec, Logistic Regression and Decision Tree using Python, Gensim, scikit-learn and (Valence Aware Dictionary and sEntiment Reasoner (VADER)) sentiment.
- Documented findings and methodologies in reports.

Education-rpg Feb 2022 – May 2022
- Developed an online React 2D game in a private repository, with a team of 5, to help users learn React by answering multiple-choice and debugging questions.
- Created a Sequelize model of database that contained user information, questions, and game elements.
- Established routes in the backend to communicate with the frontend and database using Express.

RELEVANT EXPERIENCE

CUNY Tech Prep New York, NY
Remote Fellow, Data Science Jun 2022 – Jun 2023
- Learned in-demand technologies like Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL industry best practices for exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science process, and big data.
- Worked virtually with other fellows to complete and showcase projects at the end of each academic semester.

Temple University Philadelphia, PA
REU Remote Research Intern Jun 2021 – Jul 2021
- Collaborated with a professor to conduct simulations using a regex software that generated regular expression to understand its algorithm.
- Presented experiments, including a five-fold analysis, to a cohort of REU students and research professors.

SUPPORTING EXPERIENCE

CUNY SEEK Program New York, NY
College Assistant Aug 2019 – Dec 2019, July 2022
- Taught and tutored social science math, college algebra, and pre-calculus to 25 transfer students and incoming freshmen enrolled in a pre-baccalaureate program for underrepresented students at Baruch and John Jay Colleges.

ASSOCIATIONS

SEEK Chi Alpha Epsilon National Honor Society Nov 2021 – Dec 2022
Dean's List May 2020 – Dec 2022