Arianna Lang Wang
Software Engineer

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Basic Info

My portfolio website: https://ariannalangwang.github.io

Residency status: U.S. Citizen

Education

University of Pennsylvania · 2019 to 2022
Master of Computer Science and Information Technology, Computer Science • GPA 3.80

North Carolina State University · 2015 to 2017
Master of Statistics • GPA 3.93

Employment

Data Scientist · The Walt Disney Company · 10/2018 to 09/2019 · Full-time · Seattle, WA
• Programmed in Python on a daily basis. Coded in SQL and used Tableau on a regular basis.
• Designed and implemented a major ad revenue prediction project using Facebook's Prophet models instead of the traditional ARIMA & SARIMA statistical models, increased model prediction accuracy by 11.4%.
• Designed and implemented an NLP (natural language processing) project by using fuzzy word matching to find similar movie & show titles in various documents, automated the research team's workflow, and increased team productivity.
• Was responsible for ad revenue forecasts for Disney digital television networks. Continuously evaluate new data sources and modeling methodologies to maintain and improve excellence in forecast accuracy.

Projects

Image Classification WebApp
• Built an image classification web app that allows a user to upload a photo, then my app can recognize the photo and tell the user what the photo is.
• Utilized TensorFlow's Keras API to work with MobileNets to deploy deep convolutional neural networks (CNNs) model in my web app.
• Taught myself Python's Flask framework and used it as the back-end.
• Source code on GitHub: https://github.com/ariannalangwang/Image-Classification-WebApp.
• WebApp Demo: https://www.youtube.com/watch?v=c4w_qS3OKag.

YouTube Video Website with React
• Built a website to search YouTube videos to learn the popular front-end framework React.
• Used HTML, CSS, JavaScript, and the React framework, also employed semantic-ui for styling and YouTube's API for data fetching.
• Source code on GitHub: https://github.com/ariannalangwang/YouTube-Video-Search-WebApp-with-React.
• Website link: https://arianna-lang-wang-youtube-videos.vercel.app.

Personal Portfolio Website
• built my portfolio website to showcase my side projects and have a place to provide a copy of my resume.
• A good opportunity to learn and practice web development skills.
• Source code on GitHub: https://github.com/ariannalangwang/ariannalangwang.github.io.
• Website link: https://ariannalangwang.github.io.

Global Terrorism Project
• Implemented the whole data science pipeline from data cleaning, data wrangling, and data exploration to predictive modeling, model evaluations, data presentation, and storytelling.
• Trained and tested data on various machine learning models such as random forest, logistic regression, PCA (principal component analysis), and SVM (support vector machines) models.
• Source code on GitHub: https://github.com/ariannalangwang/Global-Terrorism-Project.
• Written report: https://www.linkedin.com/pulse/analyzing-global-terrorism-arianna-lang-wang.

Skills

Programming Languages	Java, Python, C, SQL
Web Development	HTML, CSS, JavaScript, React, Bootstrap4, Flask, Heroku
Data Science	Data Cleaning & Wrangling, Predictive Modeling, Model Evaluation, Data Visualization, Various Python Libraries
Machine Learning	Linear Regression, Logistic Regression, Support Vector Machines, Decision Tree & Random Forest, K Nearest Neighbors, Principal Component Analysis, K Mean Clustering
Tools & Platforms	Git, GitHub, Linux, LaTex, Tableau