
Basic Info

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

Residency status: U.S. Citizen

Education

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

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

Employment

Data Scientist · The Walt Disney Company Full-time · 10/2018 - 09/2019 · Seattle, WA

- Programmed in Python on a daily basis. Coded in SQL and used Tableau on a regular basis.
- Designed and built 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 built 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.

Selected 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.

YouTubeVideo 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 a portfolio website to showcase my side projects and my resume.
- Learned and practiced 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

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