William Zhao

415-535-4199 | williamzhao7140@gmail.com | Github

Experience

Data Administrator Intern June 4, 2023 – Present
Dev/Mission *San Francisco, CA*

- Analyze data trends, patterns, and correlations to provide actionable insights for improving business operations
- Ensure accuracy and consistency of data in reports, verifying data sources and conducting thorough quality checks
- Present findings and recommendations to senior management, facilitating informed decision-making processes

Apprenticeship February 4, 2023 – April 28, 2023
Dev/Mission *San Francisco, CA*

- Completed 150+ hours of:
  - IT Fundamentals (General knowledge on data storage, formats, and security)
  - Web Development (HTML, CSS, JavaScript, Bootstrap)
  - Iot (Data collection, transmission, and analysis using sensors and other physical devices)
- Developed a full-stack web application using Javascript, HTML & CSS, Bootstrap, and Airtable(Database), providing comprehensive information on SF hospitals

Projects

Spotify Music Reccomendation System | *Python, Spotify API, Tableau, Pandas, Scikit, Matplotlib, Jupyter Notebook*

- Developed a song recommendation system using cosine similarity by comparing features of novel songs and past listening history of a user
- Analyzed and visualized 150,000 rows of data from past listening habits through graphs and tableau, seen here on Tableau.
- Converted 4 years of user listening history data to a CSV of song attributes(e.g, temp, acoustiness, and loudness)

OpenAI Finetuned(High School Themed) Chatbot | *Python, HTML & CSS, Javascript, OpenAI*

- Built a website that conversed with a user using a fine-tuned built on top of OpenAI's NLP model "davinci"
- Trained on ~120 lines of data that was specific to my school to make it more interactive with students, seen here on this website
- Obtained data by building a synethetic dataset generator using OpenAI's API that formatted data suitable for finetuning

Abalone Exploratory Data Analysis and Research | *Python, Pandas, Jupyter Notebook*

- Researched efficent ways in determining Abalone age through shell-rings, shell-weight, shell-height, and viscera
- Analyzed and Visualized over 400 rows of data to research efficent age classification of abalone
- Achieved 40% Accuracy and 40% Recall

Volunteer Experience

Mission Bit Volunteer February 8, 2022 – May 1, 2023
Online

- Mentored students on computer science concepts and skills, in Python, through an online Discord community
- Completed 63 hours of mentoring

Technical Skills

Languages: Java, Python
Libraries: Pandas, Scikit, NumPy, Matplotlib, Seaborn
Other: Excel Spreadsheets, Microsoft Word, Tableau, Adobe Illustrator, Adobe Photoshop
Certificates:

- "Analyze data with Python"(2022,Codecademy)
- "Cleaning data with Python"(2022,Codecademy)
- "Handling missing data"(2022,Codecademy)
- "Recommender Systems"(2022,Codecademy)

Education

George Washington High School (Pursuing BS in Computer Science) San Francisco, CA
GPA: 4.0 *June 1, 2023*