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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Expected Fall 2021 - Fall 2023

M.S. in Analytics, Computational Data Analytics Track

SAN JOSE STATE UNIVERSITY

Graduated December 2020

B.S. in Applied Mathematics, Concentration in Computational Mathematics Minor in Economics

- Honors: Cum Laude, Dean's Scholar (Fall 2017/Fall 2019)
- Relevant Coursework: Introduction to Database Management Systems, Data Structure and Algorithms, Mathematical Modeling, Numerical Analysis, Probability Theory

EXPERIENCE

STEM Mentor Intern

Girlstart January 2019 – May 2019

- Organized weekly STEM activities with 2 other mentors for 45 young girls (grades 3-5) to bring awareness to career options in STEM
- Conducted a survey at week 18 and achieved a 93% improvement in their knowledge of STEM and a 533% increase in their desire to pursue STEM careers.

TECHNICAL SKILLS

Languages: SQL, Python, R, Java

Libraries: Pandas, NumPy, Seaborn, Matplotlib, Sklearn, Tidyverse, BeautifulSoup, Selenium

Software: MS Excel, MySQL, Jupyter Notebook, Tableau

MOOCs: (*Udemy*) R Programming A-ZTM: R For Data Science With Real Exercises! (*Udemy*) Machine Learning A-ZTM: Hands-On Python & R In Data Science

PROJECTS

Glassdoor Data Analyst Essential Knowledge Guide

- Web scraped 20 pages of Glassdoor using **BeautifulSoup** and **Selenium** to obtain 200 interview questions from to create a study guide and scraped 1000 data analyst job postings to explore with **Pandas** and **Seaborn**.
- Extracted essential job skills with **NLP** techniques: Word2Vec, Topic Modeling/LDA, and Rule-Based Matching.
- Developed a **Support Vector Regression** model to estimate data analyst salaries with a MAE of \$12,700 and deployed the model using **Streamlit**.

Spotify Optimal Musical Flow Playlist

- Analyzed and wrangled 7,000+ rows of personal Spotify data using **Pandas, NumPy,** and **Seaborn** to visualize streaming trends and correlation between each extracted "audio feature" from Spotify's API.
- Coded a Python script to automate curated songs from a .csv file into a Spotify playlist.
- Deployed web application to Streamlit/Heroku and presented analytical findings on a Tableau dashboard.

Airline Reservation System

- Spearheaded project with 2 software engineering students utilizing Java and MySQL to allow users interact with the airline database that supports archiving with triggers and stored procedures.
- Created a database such that its relations were in 3NF or BCNF to eliminate data redundancies.

Spatial Analysis on Homelessness in the Bay Area

- Used **ArcGIS** and **SQL** to create 18 choropleth graphs based on calculated Gini coefficients to infer homelessness in the Bay Area and map distributions of different races experiencing homelessness.
- Wrangled 200,000+ rows of data in ArcGIS and Excel by cleaning, structuring, and enriching the data.
- Discovered a 46% increase in homelessness and 49.64% reduction of shelter resources.