

Will Torres

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EDUCATION

Adelphi University

Garden City, NY

B.S. in Computer Science, degree anticipated 2022

GPA 3.75

Related Courses: Machine Learning, Data Structures, Database Management Systems, Calculus I & II, Statistics, Introduction to Programming (Python), Intermediate Programming (Java), Survey of Programming Languages (C, C++)

SKILLS

Programming Python (NumPy, Pandas, Matplotlib, Seaborn, Keras), R, SQL, Java, C, C++, PHP, Git

Data Science Hypothesis Testing, Cross-Validation, Predictive Modeling, Supervised and Unsupervised Machine Learning

Software Microsoft Office (PowerPoint, Excel, Word), Jupyter Notebook, MS SQL Server, Slack, Agile

PROJECTS

Genre Classification using K-Nearest Neighbors and Spotify API

Personal Project

- Developed a K-Nearest Neighbors (KNN) algorithm to classify similar genres and subgenres of Rock, Techno, and Rap.
- Scraped playlists using the Spotify API, Pandas, and NumPy; Visualized data using Seaborn and Matplotlib.
- Attained an accuracy rating of 70%, 80%, and 82%.

Cointegration Analysis of COVID-19 Transmission at State and County Levels in the US

University of Tennessee, Chattanooga (NSF-REU Funded)

- Automated the cointegration analysis of 3000+ US counties using zoo, forecast, VARS, and lmtest.
- Tidied data with tidyverse, lubridate, and dplyr; Visualized cointegrated states using ggplot2.
- Assisted with training Twitter data using Keras to be used in conjunction with US State data.

Agent-Based Model of Honeybee Overwintering

Adelphi University (NSF-DMS Funded)

- Simulated the honeybee overwintering process using NumPy, Pandas
- Visualized how survival is affected by climate change with PyGame.
- Tidied, analyzed, and visualized simulation data using tidyverse, lubridate, dplyr, and ggplot2.

WORK EXPERIENCE

Adelphi University

Garden City, NY

Teaching Assistant

January 2021 – May 2021

- Provided individual and small group instruction for students in Statistics and Calculus 1.
- Assisted students with programming and computer software skills in Python, R, Excel, and LaTeX.

IT Project Management Assistant

September 2019 – December 2019

- Assisted with 30+ projects, portfolios, and department management activities required to support the IT Department.
- Created, monitored, and updated milestone reports, dashboards, spreadsheets, forms, and the IT Department's database.
- Organized weekly meetings, coordinated materials, and tracked action plans.

On-Campus Involvement

Adelphi University

Garden City, NY

Event Coordinator, Environmental Action Coalition

September 2019 – December 2021