WILL MIZER

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GPA: 3.81

Education

BACHELOR OF SCIENCE | DATA SCIENCE - Florida Polytechnic University - Lakeland, FL

Expected 5/2027

ASSOCIATE OF SCIENCE | COMPUTER PROGRAMMING/ANALYSIS – State College of Florida – Venice, FL 12/2023

Skills

Python

Libraries: pandas, matplotlib, seaborn, sci-kit learn

Tableau

Interactive dashboards and visualizations
Storytelling and filtering

R Programming

Packages: dplyr, ggplot, tidyr

SQL

Data cleaning, joins, query optimization Aggregation functions, filtering and group by

Microsoft Office

Emphasis on Excel, VLOOKUP, pivot tables, basic formulas

Hadoop

Tools: HDFS, MapReduce, PySpark

Projects

PYTHON | SQL: VIRGINIA HOUSING ANALYSIS - Personal Project (2025)

- **Improved price prediction accuracy by 50%** (from ±\$140K to ±\$70K) by switching from basic regression to a tuned XGBoost Random Forest model.
- Built a predictive tool to estimate house prices based on square footage, acreage, location, and amenities, helping users evaluate build vs. buy options.
- Empowered family members with data-driven insights on home buying decisions in Virginia, increasing confidence in relocation choices.
- **Enabled users to estimate future home values,** based on lot size and location, helping prospective builders forecast market-aligned pricing in target areas.

PYTHON: MOVIEMATCHAI MOVIE RECOMMENDATION SYSTEM - Personal Project (2025)

- Boosted recommendation accuracy from 10% to 35% by replacing TF-IDF with SentenceTransformer embeddings and tuning feature weights via Optuna.
- **Engineered a hybrid similarity model** that recommends similar movies based on cast, director, overview, genre, and themes using weighted cosine similarity.
- **Developed an interactive tool** that allows users to input a movie and receive personalized recommendations, solving a real-world group decision problem.
- Led full ML pipeline development from data cleaning and vectorization to model evaluation and fine-tuning using Python and scikit-learn.

PYSPARK: END TO END DATA MOVIE PERFORMANCE PREDICTION – University Project (2025)

- **Led end-to-end development** of a scalable PySpark pipeline to predict movie success using runtime, genre, budget, cast/director and various other metrics.
- Enabled producers to simulate and assess the commercial viability of movie ideas by inputting key features into a trained linear regression model.
- Processed 70M+ IMDb entries using distributed computing in PySpark, demonstrating scalability and real-world applicability.
- **Visualized prediction trends** and explained model outcomes with interpretable metrics, supporting data-backed greenlighting decisions.

ONLINE DATA ANALYST - TELUS International

Nov 2023 - Apr 2024

- Reviewed and rated images, sounds and search results to improve Al training data, ensuring accuracy and relevance for machine learning models
- Securely worked while maintaining data privacy and security regulations
- Provided detailed feedback to enhance algorithm performance and optimize model accuracy
- Maintained a high level of accuracy and attention to detail in evaluating digital content

SALES ASSOCIATE - The TJX Companies, Inc - Venice, FL

May 2021 – Mar 2022

- Managed the HomeGoods department, including rugs, lamps, and furniture, while maintaining a high level of customer service.
- Assisted customers with product inquiries and provided recommendations to improve their shopping experience.
- Ensured **inventory organization** and floor presentation met company standards.
- Worked very well with teammates and **communicated effectively** on what tasks needed to be accomplished.