WILL MIZER

(941) - 812 - 7787| will.mizer@gmail.com@gmail.com Will Mizer | LinkedIn

> willmizer | GitHub Sarasota, FL 34275

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.