Will Mizer

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TECHNICAL SKILLS

Languages & DBs: Python, R, SQL (PostgreSQL, MySQL, SQL Server), HTML/CSS, Bash
Machine Learning: scikit-learn, XGBoost, Random Forest, Transformers, PySpark, NLP
Data Analysis: Pandas, NumPy, SciPy, GeoPandas, Excel (Pivot Tables, VLOOKUP)
Visualization: Tableau, Power BI, Matplotlib, Seaborn
Cloud & Tools: AWS (EC2, S3), Docker, Git, Flask, REST APIs, Statistical Modeling

EDUCATION

Florida Polytechnic University Lakeland, FL
Bachelor of Science in Data Science *Aug 2024 – May 2027*
- GPA: 3.85

State College of Florida Bradenton, FL
Associate of Science in Computer Programming and Analysis *Aug 2021 – Dec 2023*
- GPA: 3.64

PROJECTS

College Happiness Simulator Platform | *Python, Random Forest, Flask, AWS*
- Engineered a dataset of **3,200+ U.S. universities** by performing ETL on student reviews and NCES institutional data using Selenium and BeautifulSoup.
- Developed a **Random Forest regression model** (CV $R^2 = 0.74$) to quantify the impact of campus amenities on student satisfaction, identifying facilities and social as important features.
- Built a simulation platform to model marginal gains from budget allocation, enabling data-driven decision-making for university administrators.
- Deployed a production-grade **Flask application on AWS EC2** using Nginx and Gunicorn, implementing system-level optimizations for low-latency inference.

Virginia Housing Analysis | *Python, XGBoost, Random Forest, SQL*
- Reduced **home price prediction error by 50%** (MAE reduction of $70K) by implementing ensemble methods (XGBoost/Random Forest) and hyperparameter tuning.
- Constructed a predictive pricing tool incorporating feature importance analysis (acreage, location, amenities) to support strategic builder investment decisions.

Movie-Match AI Recommendation System | *Python, scikit-learn, NLP*
- Improved **recommendation precision by 25%** by transitioning from hard constraints to semantic similarity using **SentenceTransformer embeddings** and Cosine Similarity.
- Designed an automated ML pipeline using Optuna for weight optimization and scikit-learn for model evaluation.

EXPERIENCE

Phoenix Autonomy Roboboat Sep 2025 – Present
Simulation Developer (Competition Team) *Lakeland, FL*
- Developing a **Gazebo simulation environment** to generate synthetic LiDAR and camera data, reducing physical testing requirements by an estimated 40%.
- Collaborating on **Sensor Fusion** algorithms to integrate perception data into autonomous navigation stacks.

Florida Polytechnic University May 2025 – Present
Orientation Leader & Campus Recreation *Lakeland, FL*
- Selected to lead campus integration for 100+ incoming students, facilitating team building activities and improving public speaking capabilities.

TELUS International Nov 2023 – Apr 2024
AI Data Analyst *Remote*
- Conducted **Quality Assurance (QA)** on large-scale training datasets, improving data accuracy for Large Language Model training by 50%.
- Evaluated and annotated model outputs to establish ground-truth data, directly enhancing machine learning model performance and safety alignment.