

Jordan Yu

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Education

University of Florida, Bachelor of Science
2024

Graduated: December

Major: **Data Science** | Minor: **Actuarial Science**

- **GPA: 3.80/4.00**
- *Certifications: NVIDIA Fundamentals of Deep Learning, NVIDIA Getting Started with Deep Learning*
- Relevant Courses: Statistical Learning, Statistical Computing, Database Systems, Regression Analysis, Probability Theory, Statistics Theory, Data Structures and Algorithms, Business Finance, Financial Accounting

Skills

Programming Languages: Python, SQL, R, C++, Java, MATLAB, PineScript, VBA, HTML, CSS

Frameworks: Numpy, Pandas, Tidyverse, TensorFlow, Git, PyTorch, Microsoft Excel, PowerBI, AWS, Microsoft Azure

Experience

Data Science Researcher
UF SERMOS Lab

August 2024 – Present

- Develop machine learning models using PyTorch and TensorFlow frameworks to accurately forecast travel demand during large-scale emergencies improving prediction accuracy by **22%** over benchmark models
- Perform data preprocessing on **822,000+** data points using SQL queries on hurricane and wildfire travel data for fast and efficient evacuation routes, leading to a significant **reduction** in travel response time by over **2 hours**
- Collaborate with data analysts and geographers to obtain temporal evacuation data, enhancing GIS spatial analysis

Machine Learning Researcher

January 2023 – December 2024

Data Driven Humanities Research Group

- Utilized OpenAI API to perform comprehensive sentiment analysis on historical texts, allowing faster evaluation of emotional tone, improving classification accuracy, and substantially reducing manual annotation time by **72%**
- Analyzed 10,000+ works of classical literature and generated **500,000+** Ancient Greek and Latin sentences used to train a deep-learning NLP model for sentiment analysis, with a **23% increase** in classification performance
- Conducted research using computer-enhanced analysis of the Ancient Greek and Latin languages to study the Greco-Roman worlds, their culture, and societies, directly resulting in a **35% increase** in data accuracy retrieval

Tech Operations Assistant
UF EDGE

January 2023 – Present

- Maintain a comprehensive course database with over **32 years** of lecture recordings, ensuring accurate cataloging, quick access, and easy retrieval of educational content for graduate engineering programs and research initiatives
- Direct **11+** camera systems for live and recorded graduate level engineering courses, ensuring high quality video production for online, hybrid, and remote learning platforms assisting unique needs for students and professors

Personal Projects

Electricity Demand Time- Series Forecasting Model

- Developed and evaluated various time-series machine learning models to predict future electricity usage with over **83% accuracy** utilizing feature engineering techniques and validation metrics for optimal energy management
- Analyzed electricity demand in major cities by identifying relationships with predictors like weather and pricing

S&P500 Index Trading Algorithm

- Combined different statistical models in Python to identify optimal entry and exit timing in financial markets resulting in a **7% increase** in profit margin through precise trend analysis and market forecasting techniques
- Conducted a thorough analysis of data over **10,000** trading days to optimize win-loss ratios with a **68% win-rate**

Spotify Predictive Data Modeling

- Extracted and analyzed **145,000+** songs from the Spotify API examining the correlation between song characteristics such as BPM and the growth of song popularity over time, revealing trends in music popularity
- Implemented and visualized regression models using Python's SciPy and scikit-learn libraries to identify relationships between tempo, volume, frequency, and their significant impact on Billboard Top 100 rankings

Activities

- Attend financial market competitions, collaborating with industry professionals and fellow peers