TAIWO AKINGBESOTE

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CAREER SUMMARY

Detail-oriented Mathematics and Computer Science student, graduating May 2024 with a strong foundation in data analysis and machine learning. Demonstrates exceptional project management skills and a collaborative spirit, eager to learn and contribute. Skilled in synthesizing complex datasets and developing forward-thinking solutions. Seeking to leverage analytical skills and a collaborative approach to contribute to data-driven decision-making processes.

EDUCATION

Montclair State University (MSU) — Montclair, NJ
Bachelor of Science in Mathematics; Minor in Computer Science — Expected Graduation: May 2024
GPA: 3.62/4.0
Relevant Coursework: Calculus 3, Linear Algebra, ODE, Data structures and Algorithms, Perturbation Theory, Probability, Python, Physics I&II & Mathematics Modeling.
Honors: Dean's List for multiple semesters, Audrey V Leaf Scholarship, Mathematics Ambassador.

TECHNICAL SKILLS

Programming Languages: Python, SQL, Java, HTML, CSS, Excel, C++, JavaScript, and R.
Libraries Pandas, NumPy, Matplotlib, Scikit-Learn, Flask, Dash.
Tools and Frameworks: Statistical Analysis, A/B Testing, Feature Engineering, Forecasting, Portfolio Optimization, Risk management and identification, Derivatives, Dynamic Programming, Computer Systems.

EXPERIENCE

DATA GLACIERS — Remote
Data Science Intern ~ unpaid — May 2023 - Aug 2023
- Engineered and deployed advanced machine learning models with Python, integrating Flask to design a user-centric web application on Heroku, which improved model accessibility and user interaction.
- Spearheaded a cross-regional team of interns to design an ML forecasting model for a bank, in an aim to cut operational costs by 20%, enhancing customer behavior prediction accuracy by 25%.

MSU DEPARTMENT OF SCIENCE AND MATHEMATICS — Montclair, NJ
Teacher's Assistant; Applied Pre-Calculus & Calculus 1 — Jan 2023 - Present
- Provide one-on-one and group instruction to 83 undergraduate students in pre-calculus concepts.
- Create customized lesson plans and practice problems to improve student understanding.
- Monitor and evaluate student progress and provide feedback to students and professors.

CERTIFICATIONS AND CAREER DEVELOPMENT

Bloomberg Market Concepts — Jan 2024
JPMorgan Chase & Co. Quantitative Research Virtual Experience Program on Forage — Jan 2024
- Devised a sophisticated Python-based pricing algorithm enabling accurate future price forecasting and borrower default risk assessment, enhancing financial decision-making capabilities.
- Implemented advanced Python code for customer segmentation based on FICO scores to refine default risk assessments and Enhanced skills in dataset analysis using machine learning techniques.

Quantitative Risk Management with R - Data Camp — Jan 2024
- Developed expertise in modeling financial portfolio risks, proficient in using the qrmdata package for data aggregation and visualization, and skilled in value-at-risk estimation.
- Adept at conducting normality tests, applying statistical models, analyzing volatility, serial correlation, and cross correlations in financial data.

Quantitative Risk Management with Python - Data Camp — Jan 2024
- Utilized the Black-Scholes model for hedging options portfolios and employed parametric estimation with historical data for risk measurement, incorporating Monte Carlo simulation for predicting uncertainties.
- Implemented neural networks for approximating loss distributions and executing real-time portfolio optimization.

PROJECTS

Go-to-market insight for a cab investment company. | *Python, Jupyter, Git*
- Provided Go-To-Market insights for a taxi investment firm by conducting a comprehensive analysis that evaluated contemporary trends and yielded refined EDA.

ML Modeling Project | *Flask, Linear regression, HTML, CSS, Python*
- Built a classification model leveraging FIFA's official dataset to appraise soccer players' market value, utilizing linear regression techniques. This model adeptly predicts potential career trajectories based on age and performance metrics, implemented via a Flask-driven interface.

LEADERSHIP ACTIVITIES

- MSU MATHEMATICS DEPARTMENT – Serving as a Math Ambassador.
- LSAMP – Student Mentor, guided freshman, and sophomores on the right track.
- NJ SANTOS RUSH SOCCER TEAM – Assistant Club Captain and plays the left back position.