Allan Waweru

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EDUCATION

The University of Georgia, Athens, GA   Expected Graduation: May 2023

- **Major**: Data Science
- **Relevant Coursework**: Software Development, Database Management, Data Structures, Statistical Programming, Applied Linear Algebra, Applied Regression Analysis, Machine Learning (IP), Data Mining (IP)

SKILLS

- Programming Languages: Python (NumPy, SciPy, Pandas, TensorFlow, Keras), Git, R, Tableau, SQL (intermediate)
- Machine Learning: Classification, Regression, Feature Engineering, Data Scraping (see projects)
- Statistics: Hypothesis Testing. Regression, Confidence Intervals, Basic Probability Theory
- Soft Skills: Effective Communication, Self-Starter, Adaptability, Intellectual Inquisitiveness, Business Acumen

PROJECTS

NBA Salary Prediction

- Built predictive models to calculate the ideal NBA player's salary based on their game statistics.
- Used Feature Engineering to identify the variables that stood to correlate the most with salary i.e., Points, Assists, Rebounds, Minutes, Age.
- To understand the efficiency of the models, the R-Squared values for each of the models were:
  - Random Forest Regressor: 61.4% | K-Nearest Neighbor: 61.8% | Linear Regression: 64.4%

Formula 1 Exploratory Data Analysis

- Exploratory data analysis comparing performances of Lewis Hamilton and Max Verstappen at Abu Dhabi Grand Prix.
- Used the web-scraper Beautiful Soup to parse the HTML data of the F1 webpage into a more readable format.
- Plotted lots of visuals from the discovered race insights with seaborn, matplotlib, and Plotly.

PROFESSIONAL EXPERIENCE

Federal Reserve Bank of Atlanta, *Data Science Intern*   May 2022 – August 2022

- Explored the viability of using NLP to support the legal agreement administration between the reserve bank and various depository institutions.
- Used python(OCR) to extract contact information from the legal documents and automatically input it into the related databases, saving analysts 14 hours of manual work weekly.
- Wrote power query scripts that organized various banks' ABA number based on merger dates
- Created an interactive cohort analysis in Tableau for the Discount Window team that revealed previously uncovered trends in the districts' collateral lending.

UGA EITS Externship, *Data Warehouse and Analytics*   May 2021 – August 2021

- Wrote Domo scripts for an interactive query system that provided housing for students affected by COVID.
- Worked on Amazon Redshift Database with exposure to cloud computing infrastructure solution such as EC2, S3.
- Gained experience with dimensional modeling using star schema and snowflake models.

Kennesaw State University Bookstore, *Student Assistant*   December 2019 - August 2020

- 1 of 4 students responsible for implementing *Foxtrot RPA* to streamline unstructured employee data from payroll.
- Prepared attendance reports and aided in processing payroll for bookstore staff.
- Increased the annual productivity of the payroll department by 15%, saving an additional $7,500.

RELEVANT EXPERIENCE & INVOLVEMENT

Association for Computing Machinery   October 2020 – Present

- Accepted as 1 of 25 to UGA's organization that prepares students for careers in computer science related fields.
- Discuss various topics such as big-data analytics, bioinformatics, A.I at weekly meetings, enhancing debate skills.
- Volunteer at various high schools educating the youth of the many opportunities available in Computer Science.

CERTIFICATIONS

KPMG Data Analytics Consulting Virtual Internship, Google Data Analysis Certification (IP)

INTERESTS

Basketball, Formula 1, Working out, Sneakers