Zikora Chinedu

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Science in Computer Science, Minor in Mathematics/Statistics | GPA: 3.8   *Sep. 2023 – June 2027*

EXPERIENCE

Machine Learning Intern   May 2024 – July 2024
Ecobank Transnational Incorporated   *Lagos, Nigeria*
- Leveraged machine learning models and conducted extensive **EDA** to develop predictive analytics solutions, including salary prediction and loan default forecasting, enhancing data-driven decision-making.
- Utilized **Python** and **NLP** techniques to develop a framework for the company's chatbot, using **data preprocessing**, **intent recognition**, and **response generation** to enhance user interactions.

Intern   Jan. 2021 – April 2021
Sprott School of Business at Carleton University   *Remote*
- Worked as an Intern/Junior Researcher, working with Bloom Local, an Ottawa startup that provided SaaS to SMBs that enabled effective localized SEO, aligning consumer needs with nearby retailers
- Collaborated with my team to deliver market research for Bloom Local, aiding in informed decision-making and establishing practical market parameters for investment assessment.

PROJECTS

Salary Predictor | *Python, Pandas, Matplotlib, Scikit-learn, NumPy*
- Created a salary predictor that used exploratory data analysis and machine learning algorithms to predict salaries based on numerical and categorical data.
- Developed custom **Matplotlib** functions to programmatically generate and display graphs, streamlining the data visualization process and eliminating the need for manual data entry.
- Evaluated multiple algorithms and used the best model, **Random Forest Regression**, for predictions.
- Designed a function that allows users to input their own parameters to predict their salary.

Loan Default Predictor | *Python, Pandas, Matplotlib, Scikit-learn, NumPy, Seaborn*
- Created a loan default predictor that used **Exploratory Data Analysis** and **Logistic Regression** to predict whether someone would default on a loan or not based on given parameters such as Education, Credit History, etc.
- Preprocessed data by handling missing values, standardizing numerical data, and encoding categorical variables.
- Compared the **Logistic Regression** model against **SVC**, **Random Forest Classifier**, and a **neural network** to ensure robustness
- Used a confusion matrix to check the efficacy of the model.
- Achieved an accuracy of **79%**, a weighted precision of **78%**, and a **weighted recall** of **79%**, and an weighted f1-score of **78%**.

Trading System Analysis | *Python, Pandas, Matplotlib, yfinance, NumPy*
- Utilized **yfinance** to collect historical stock data for **Apple Inc. (AAPL)** from 2015 to the present.
- **Preprocessed** data by adding sequential day columns and calculating 9-day and 21-day rolling averages.
- Developed a trading system where the signal is buy when the 9-day MA crosses above the 21-day MA and where the signal is sell when the 9-day MA crosses below the 21-day MA.
- Computed daily log returns and system returns by multiplying the signal with daily log returns, and visualized them using Pandas
- Visualized stock prices, rolling averages, and entry points using **Matplotlib**.
- Compared cumulative returns of a buy-and-hold strategy with the signal-based trading strategy.

TECHNICAL SKILLS

Languages: Python, HTML/CSS, Java, C, Assmebly, JavaScript
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, PyTorch, Tensorflow, Transformers, yfinance, Scikit-learn, spaCY, Seaborn