

STELLA ABELINDE

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Education

University of Toronto

September 2019 - April 2024

HBSc Specialist in Economics | Double Minors in Math and Statistics

Toronto, Ontario

Courses: Object-Oriented Programming (A), Advance Calculus (A+), Linear Algebra, Combinatorial Analysis, Discrete Math, Differential Equations (A), Time Series Econometrics (A+), Applied Econometrics I, Financial Economics (A+), Game Theory, Machine Learning (A), Public Economics (A-), Welfare Economics, Mergers and Competition Policy (A-)

Awards: Honour Specialist **with Distinction**, Financial Grant Recipient (3x))

Experience

Radical AI

June 2024 – Present

Machine Learning Engineer | Intern

Toronto, Ontario | Remote

- Develop and deploy AI applications using leading frameworks such as OpenAI Assistant API and Google Gemini; Conduct comprehensive data collection and preprocessing for optimal generative AI model performance including prompt engineering to refine AI model interactions
- Developed an AI-driven assessment tool that generates personalized quizzes from user-provided documents** for an AI teaching assistant agent which offers instant feedback, comprehensive explanations, and adaptive learning to enhance the efficiency and effectiveness of automated learning experience.
- Engineered an interactive chatbot, integrated with Google's Vertex AI, for an e-commerce platform, resulting in **15% point increase in customer retention rate and 50% point increase in return visit**

Sephora

September 2022 – November 2023

Beauty Advisor

Toronto, Ontario, Canada

- Applied choice theory to analyze client preferences, delivering tailored product recommendations and achieved 100% customer satisfaction; Achieved highest **Sales per Labor Hour (SPLH) of \$643**, far exceeding the average SPLH of \$90, through methodical application of economic principles.

Select Research Projects

Semantic Analysis and Feature Engineering for Predicting Patent Approval | | Python

March 2024

- Utilized advanced text analytics and machine learning techniques to predict patent approval based on abstract content.
- Analyzed over 150 metadata and demographic features using exploratory data analysis and summary statistics, identifying no significant correlation with patent application status.
- Implement text vectorization with TF-IDF and Bag of Words; Engineered a novelty detection feature using cosine similarity and LDA to improve model differentiation; Developed and assessed multiple machine learning classifiers, including Logistic Regression (baseline model), KNN, SVM, Random Forest, and XGBoost, which enhance patent prediction accuracy by 5% points.
- Awarded as best class project for my undergraduate machine learning class, paper and presentation**

Advanced Forecasting Techniques for GDP and Consumption | | R

January 2024

- Developed predictive models to forecast U.S. personal consumption expenditures (PCEC) and gross domestic product (GDP) using time series analysis techniques.
- Retrieved PCEC and GDP data from the Federal Reserve Economic Data (FRED) database. Applied logarithmic transformation and differencing to stabilize variance and ensure stationarity of the time series.
- Developed, trained, evaluated multivariate models such Vector Autogression (VAR), Vector Error Correction (VEC); and Recursive Neural Network models such as LSTAM and GRU on a validation set, demonstrating the LSTAM model's superior accuracy in capturing long-term trends and reducing forecast error using MSE and AIC minimization criterion.

Skills

Languages: Python, R, Stata, SQL (**HackerRank Certified, Advance**), MATLAB

Visualization Tools: Tableau, Cognos Analytics, Power BI, Excel

Libraries/Frameworks: Jupyter, Tensor-Flow, PyTorch, Matplotlib, Numpy, Request, GeoPandas, BeautifulSoup, scikit-learn, Dplyr, Shiny, Caret, TidyR, Lubridate and etc..

Database and Search: Chromadb, VectorSearch

Others: Problem Solving (**HackerRank Certified, Int.**)

Certificates

IBM Data Engineering

April 2024 - August 2024

Professional Certificate | 13-Course Series | 220 hours

Coursera

IBM Machine Learning & AI Engineering

April 2024 - August 2024

2 Professional Certificates | 12 -Course Series | 220 hours

Coursera

IBM Data Analysis & Advance Data Science

February 2024 - July 2024

2 Professional Certificates, 1 Specialization Certificate | 24-Course Series | 530 hours

Coursera

Extracurricular and Hobbies

UofT Poker Club | Live and Online Poker Cash Game

Fall 2021 – Fall 2023

Board Member | Poker Player

University of Toronto | Community and Online

- Organize and Participate in non-monetary poker game tournaments held twice a month during the school year
- Leverage my Game Theory and Statistical skills; and integrate that along with my sharp and acute social skills for optimal profit at a **\$1-\$2 stakes game; playing volume of 2 – 3 games per month; \$12,000 lifetime profit**