

Temí Otun

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EDUCATION

University of Alberta	Expected April 2027
<i>Bachelor of Science, Major in Computing Science –Artificial Intelligence</i>	<i>Edmonton, AB</i>
<ul style="list-style-type: none">Relevant Coursework: Algorithms I, Machine Learning I, Formal Systems and Logic in Computing Science	

WORK EXPERIENCE

Research Assistant	January 2025 – Present
<i>TMIC Wishart Node</i>	<i>Edmonton AB</i>
<ul style="list-style-type: none">Advancing data preprocessing skills by building weather-based web scrapers, updating and cleaning databases alongside feature engineering techniques such as autocorrelation, partial-correlation, interpolationCreating a weather prediction application, by experimenting with ARIMA, LSTM, Transformers, RNN, and ML time series-based models	

Research Assistant	September 2024 – Present
<i>University of Alberta</i>	<i>Edmonton AB</i>
<ul style="list-style-type: none">Conducting projects based in computational psychiatry and predictive healthcare modelingParticipating in weekly presentations to discuss the recent findings from PhD and Master students in the field of survival analysis, heart disease predictions, and related fieldsContributing to research by documenting experiments, assisting, and supporting other researchers in the lab	

Data Management Intern	January 2024 – May 2024
<i>InfoStrux</i>	<i>Vancouver, BC</i>
<ul style="list-style-type: none">Actively engaged in optimizing query performance using Snowflake’s UI and SQL code to create advanced data modelsAided in designing data architecture in Snowflake leading to an in-depth understanding and analysis of data structuresCreated databases and schemas to work with structured, semi-structured and unstructured data through Snowflake’s UI system	

EXTRACURRICULARS

Project	January 2025
<i>Lung Cancer Detection</i> Github	<i>Edmonton, AB</i>
<ul style="list-style-type: none">Implemented SVM, k-NN, Random Forest, Xgboost, Logistic Regression, Lightgbm, and Catboost on a Kaggle lung cancer datasetLeveraged feature preparation techniques such as SMOTE and standardization in combination with cross-validationAchieved a recall score of 99%, accuracy score of 94%, precision score of 95%, and f1 score of 97% on the best classification model	

Research	September 2024 – November 2024
<i>Process-2025</i>	<i>Edmonton, AB</i>
<ul style="list-style-type: none">Utilized an audio dataset to perform classification and regression tasks for early detection of dementia, and MCIParticipated in the ICASSP 2025 SPGC challenge to develop a random forest model that classified patients as 1 of 3 classes with their respective scoresExperimented with self-supervised and pre-trained models from past research to improve prediction scores such as f1, recall, precision and RMSE	

Project	August 2024
<i>Emotion Detection Neural Network</i>	<i>Calgary, AB</i>
<ul style="list-style-type: none">Designed a Convolutional Neural Network from scratch using TensorFlow and OpenCV utilizing activation functions, BatchNormalization and MaxpoolingUtilized the FER 2013 Kaggle dataset of over 32,000 labeled images to train the supervised model for emotion recognitionApplied pre-trained models, such as Resnet and VGG achieving an overall accuracy of 70%	

App	July 2024
<i>Basketball Chatbot (Python, SQL, Swift)</i> GitHub	<i>Calgary, AB</i>
<ul style="list-style-type: none">Created a Basketball Chatbot using Python and a Kaggle SQL database holding over 4800 NBA players and 30 teamsUsed Swift UI to create a custom interface so users can query the Chatbot about Basketball related questionsIntegrated Firebase for user authentication and sign-in, ensuring secure access and data encryption for emails and passwords	

SKILLS

Languages: C, Python, and SQL
Libraries: Darts,Matplotlib, NumPy, Nixtla, OpenCV, Pandas, Pytorch,Sklearn and TensorFlow
Scholarships and Awards: Jason Lang Scholarship
Certifications: Bloomberg Market Concepts, and Snowpro Core Certification
Spoken Languages: English and Yoruba
Interests: Basketball, Football, Hiking, Machine learning, and Weightlifting