Chibundum Adebayo

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EDUCATION

Covenant University Nigeria
- Bachelor of Engineering, Information and Communication Engineering 2016 - 2021
- *Cumulative GPA*: 4.81/5.00 | *Honors:* Best graduating student in the program.

PROFESSIONAL EXPERIENCE

Associate Data Scientist, *Indicina Technologies Limited* April 2023 - Present
- Built an interpretability system for the loan decision engine, enabling transparent analysis and improvement of the engine's performance. Resulting in a success rate exceeding 90% as validated by team and customer feedback.
- Implemented a topic-modelling algorithm tailored for short texts, improving the accuracy and efficiency of clustering results.
- Refactored and synced of deprecated Python codebase of the credit decision engine with the Golang version.

Data Science Intern, *Indicina Technologies Limited* April 2022 – March 2023
- Designed a documentation structure and applied it to eight (8) of our credit risk models, improving project tracking and onboarding time.
- Collaborated to develop a feature engineering and prediction pipeline for two credit loan products, reducing rejected loans by 3% and overfitting by 15%.
- Implemented a location prediction algorithm in our credit scoring engine reducing biased results by 33%.

Software Engineering Intern, *Sterling Tech and Data Sciences Limited* March 2020 – August 2020
- Built a full-stack e-commerce website within the three (3) months deadline using the Django framework, vanilla HTML, CSS and JavaScript.
- Implemented API endpoints, third-party integrations, and optimized database models, improving website responsiveness.

PROJECTS

Seq2Seq Chatbot for Machine Translation, *Udacity Deep Learning Nanodegree*

- Developed a Seq2Seq model trained on the Multi30k dataset, for machine translation from Deutsch (German) to English.
- Utilized TorchText and Gensim to enhance the model's language representation by creating a Vocabulary Object and extracting word embeddings from the Brown corpus.

Implementation of Language Models Architecture, *NLP Project*

- Implemented N-gram, multilayer perceptron(MLP), WaveNet, and Transformer architectures using PyTorch to build competency on optimizing neural networks.
- Replicated the PyTorch implementation of batch normalization, back-propagation, activation and loss functions.

Landmark Classification and Tagging for Social Media, *Udacity Deep Learning Nanodegree*

- Developed two CNN models for image location prediction: one built from scratch and the other utilizing transfer learning with the ResNet50 model.
- Achieved a test accuracy of 51% on the custom CNN model and 74% on the transfer-learned model.

F.A.D.A (First Aid chatbot for Domestic Accidents), *Bachelor's degree Capstone Project*

- Created two custom datasets; one for first-aid treatments for 70 domestic accidents common in Nigeria and another for emergency-related dialogues.
- Fine-tuned the datasets on a pre-trained transformer for multi-intent classification and entity recognition, achieving an F1 score of 0.804
- Deployed the model on a Digital Ocean droplet, monitored the performance and user-testing results using a RASA-X server.

RELEVANT SKILLS AND INTERESTS

Languages: Python, R, GoLang

Machine Learning Frameworks: PyTorch, Scikit-Learn, NumPy, Pandas, NLTK, Gensim, TorchText, Spacy

Software Engineering: HTML/CSS, JavaScript, Django, Flask

Data Management & Analytics: PostgreSQL, Google BigQuery, MySQL, Tableau, Microsoft Excel

Developer Tools: Git, RStudio, Linux, HuggingFace, MLflow, Postman

Language: English (*Fluent*), Yoruba (*Native*), German (*Basic*)

Research Interests: Computational Linguistics, NLP for low-resource languages, Model Interpretability, Speech Processing.

LEADERSHIP EXPERIENCE

Head, Hackathon Planning Committee for College of Engineering Week, *Covenant University.*　　　January 2019 – May 2019
- Coordinated a team of 5 towards organizing multiple academic events, including a career talk, a hackathon, and a quiz, for the engineering students.

Assistant Academic Officer, *Association of Electrical and Information Engineering Students (AEIES).*　　　August 2018 - May 2019
- Planned mentorship events and tutorial classes for over 300 students in the department to aid in career projection and improve academic standing.

HONORS AND AWARDS

Departmental award for Best Graduating Student in Information and

Communication Engineering, *Covenant University*　　　October 2021

Python Hack fest - Finalist, *Women in WACREN*　　　November 2019

Semi-finalist - Go Green in the city competition, *Schneider Electric*　　　October 2019

Undergraduate Scholarship Recipient, *Chevron Nigeria Limited*　　　September 2017