

# ALBERT KWAME TCHALLA

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## Education

**Kwame Nkrumah University of Science and Technology**

**Aug. 2019 – Sep. 2023**

*Bachelor of Science in Telecommunications Engineering*

*Kumasi, Ghana*

Thesis : A Hate Speech Detection Mechanism using Machine Learning

Supervisor: Dr. AGYEMANG, Justice Owusu

## Work Experience

**Moreplex Company Limited**

**October 2022 – December 2022**

*Web Developer Intern*

*Kumasi, Ghana*

- Contributed to the development of the online marketplace for the Company.
- Applied SEO strategies to improve the platform's online visibility and organic traffic.
- Worked on enhancing the UI/UX of the website, focusing on creating an intuitive and visually appealing layout to optimize user engagement and satisfaction.
- Implemented robust security features to enhance the website's protection against potential threats and vulnerabilities, ensuring the safety of user data and transactions.

**Npontu Technologies Limited**

**July 2020 – October 2020**

*Data Analyst Intern*

*Accra, Ghana*

- Conducted a sentiment analysis, utilizing techniques to analyze and interpret comments from social media.
- Research on the implementation of ML and AI in food/agriculture and transportation, identifying potential use cases and opportunities for optimization.
- Completed an introductory project management course, gaining fundamental knowledge and skills for effective project coordination and delivery.

## Projects

**A HATE SPEECH DETECTION MECHANISM USING ML** | *Python, Numpy, Matplotlib, Tkinter* **Sep. 2023**

- Collected and preprocessed a diverse dataset of text samples to train the hate speech detection model.
- Utilized Natural Language Processing (NLP) techniques and supervised learning algorithms to classify text data for hate speech detection.
- Trained and fine-tuned machine learning models on a labeled hate speech dataset, incorporating features like text embeddings and sentiment analysis.
- Conducted rigorous testing and evaluation of the model's performance, including accuracy, precision, recall, and F1-score, to ensure its effectiveness in identifying hate speech.
- Implemented user-friendly interface using Tkinter, allowing users to input text and receive a prediction regarding its hate speech content.

**COC HYMNS APP** | *Dart, Flutter, Android Studio, Firebase*

**May 2023**

- Developed a robust hymns app using Flutter and Dart, ensuring seamless access to a comprehensive collection of hymns.
- Implemented a sophisticated back-end system to retrieve and display hymn lyrics, providing users with a rich and engaging experience.
- Designed an intuitive and responsive user interface (UI) utilizing Flutter widgets, enabling users to effortlessly navigate, explore, and enjoy hymns.
- Incorporated a "Favorite" feature, allowing users to save their preferred hymns for quick access and personalization of their worship experience.
- Ensured full offline functionality, enabling users to access hymn lyrics without requiring an active internet connection, further enhancing accessibility and convenience.

## Technical Skills

**Languages:** Python, Dart, C#, HTML/CSS, JavaScript, PHP

**Developer Tools:** VS Code, Visual Studio, Android Studio

**Technologies/Frameworks:** Machine Learning, Flutter, Bootstrap, GitHub, WordPress

**Libraries:** Matplotlib, Seaborn, Numpy, Pandas

**Other Tools:** Latex, MATLAB, Excel, Jupyter Lab

## Research Interests

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Machine Learning  
Mobile App Development  
Software Security  
Programming Languages

## Certifications

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Build eCommerce websites with WordPress and WooCommerce	February 2023	Udemy
Online E-Commerce Store using WooCommerce	June 2023	Udemy
Flutter with Firebase and Stripe Build shop app from scratch	June 2023	Udemy
Flutter and Dart to create Android and IOS apps	April 2023	Udemy
Build a new and modern looking Responsive websites	August 2021	Udemy

## REFERENCES

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Available on request