

# Shedrack David

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## Skills

- **Programming:** Python | SQL | HTML
- **Technology:** Machine Learning | Deep Learning | Git | Google Colab | Jupyter | Tensorflow | Flask | Markdown | YAML
- **Database:** PostgreSQL
- **Data Visualization:** Power Bi | Streamlit | Excel – *All proficient level or above*
- **Soft Skill:** Excellent verbal and written communication; write on deep learning on linkedin and provide tutoring services on data science

## Experience

### Paritie Innovation hub

Hybrid, Nigeria **Current**

#### Junior Data Scientist

- Optimize classifiers, develop predictive models and collaborate with cross-functional teams to implement innovative solutions, extract and analyze large datasets to gain valuable insights, and present findings.
- Led the application of **BERT** architecture in transfer learning for hate speech detection which performed with a **94% accuracy**. Orchestrated fine-tuning of pre-trained BERT models using tensorflow, optimizing NLP methodologies and attention mechanisms; utilizing diverse metrics like **F1 score and ROC-AUC for robust hate speech classification**.
- Developed an E-commerce Product Recommendation System with text and image query interfaces, integrating **FastText** for text embeddings, **TensorFlow** to build a **CNN model** with an accuracy of **70%**, Tesseract OCR text extraction from images, and **Pinecone** for vector database management to enhance user experience and product discovery.

### Hamoye

Remote, Nigeria

**1/2022 - 04/2023**

#### Data Scientist, Intern

- Collected Data and made a comprehensive analysis of the FordGo regional public bicycle sharing system in California's San Francisco Bay Area. Using a dataset of over 2 million data points, the project uncovered the usage patterns between the different user groups of the bike sharing system.
- Spearheaded a highly successful **time series project**, applying advanced methodologies such as **ARIMA and Prophet models**. Led the implementation of sophisticated forecasting techniques, **optimizing predictive accuracy and insights generation by 30%**.

### FUTMINNA

Onsite, Nigeria

**2/2021 - 10/2022**

#### Computer Scientist, Intern

- Significantly enhanced project efficiency as a **Query Analyst** for group projects, effectively reducing query execution time by **40%**. This optimization expedited projects progression, ensuring timely goal achievement.
- Collected data and built a machine learning model for Olympic Medal prediction using Regression Algorithms which performed with an **88% accuracy**.

## Education

**Bachelor of Technology  
(Computer Science)**

**Federal University of Technology Minna**

Minna, Niger, Nigeria

**2018 - 2022**

## Certifications/Awards

- **Data Analysis:** *Udacity Data Analyst Nano-degree, Cognitive AI Data Analysis With Python*
- **Data Visualization:** *IBM Data Visualization using Python*
- **Machine/Deep Learning:** *Coursera Neural Networks and Deep Learning*
- **English:** *EF SET Certificate*

## Publications

Shedrack David. "Hate Speech Detector Based on Hybridized BERT-Attention Mechanism and Context Analyzer." *Journal of Computer Sciences and Informatics*, vol. 1, no. 1, 2024, pp. 17-32.

## Projects

- **E-coms Product Recommender System:** Created a product recommendation system for an e-commerce platform with text and image query interfaces using FastText for embeddings, TensorFlow to build CNN model for image classification, Tesseract OCR for text extraction from images, and Pinecone for vector database management. **(2024)**
- **Hate Speech Detector Based on Hybridized BERT Attention Mechanism and Content Analyzer:** Developed a multi-class hate speech detection model using transfer learning with BERT, hybrid attention mechanism, and content analyzer on the ETHOS dataset. **(2023)**

## Mentorship

- Mentored and tutored over 30 youths on data science and Python; organized and facilitated skill acquisition tutorials, and created video tutorials on data science for Paritie Innovation Hub Ltd.