# Shedrack David

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## Skills

- **Programming/Frameworks:** Python | SQL | HTML | Tensorflow | Flask
- **Technology:** Machine Learning | Deep Learning | Git | Google Colab | Jupyter | ERPnext | Zoho |
- **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

| | **Dotmac Technologies ltd** | *Onsite, Nigeria* | **Current** |
|---|---|---|---|
| **HR Assistant** | | | |

- Spearheaded migration from **Zoho to ERPNext**, successfully transferring 350+ employee records and HR data with zero data loss thereby achieved **$1,285.84** annual cost savings by eliminating Zoho subscription
- Designed Python automation scripts for data transformation, reducing manual entry time by **60%**
- Conducted post-migration training for 45+ staff members on **ERPNext HR modules**
- Implemented secure API connectivity using **FrappeClient** to fetch real-time data from 50+ ERPNext DocTypes including Sales Orders, Inventory, and **CRM**
- Developed and maintained company's career portal using **HTML5, CSS3, and JavaScript**, improving user engagement by 40% and implemented dynamic job listing system integrated with **Frappe framework backend**, handling 50+ monthly applications
- Architected and deployed a **Streamlit-based analytics engine** integrated with ERPNext's Frappe framework, reducing ad-hoc reporting time by ~40% and integrated **PandasAI and OpenAI LLMs** to enable natural language queries ("Show top-selling products Q3") generating visual/textual insights.

| | **Paritie Innovation hub** | *Hybrid, Nigeria* | **l/2024 - 07/2024** |
|---|---|---|---|
| **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.

## Education

| **Bachelor of Technology (Computer Science)** | **Federal University of Technology Minna** | *Minna, Niger, Nigeria* | **2018 - 2022** |
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## 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

- **California-satellite-imaging-wildfire-detection:** This project builds an integrated ML system for wildfire detection, analysis, and forecasting using satellite imagery. It includes a CNN for fire classification, a U-Net for segmentation, and a Prophet model for time-series forecasting. **(2025)**
- **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)**

## 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.