AMAH A. Danie

Machine Learning Engineer

Experienced Machine Learning Engineer with a demonstrated history of working in the field of Customer Behavior Analysis and Customer Lifecycle Management. Skilled in R, Python, Tensor-Flow, PyTorch, SQL and GCP Cloud Technologies. Strong engineering professional pursuing a Master's degree focused on Business Automation.

Experience

12/2023 - Data Analyst Present WEMA Bank PLC

- Extracted, transformed, and loaded (ETL) data from various sources, including app DBs, flat files, and web services, into Oracle data warehouse.
- Designed and implemented an automated data integration solution using Microsoft SQL Server Integration Services (SSIS).
- * Automating processes that deep-dive data analytics to identify trends, patterns, and generate insights on Payments/Transfer, Customer Service/TATs, Loans/Requisitions and Deposits/Withdrawals management, and used Power BI to develop Dashboards used by Executives.
- Querying, transforming, and creating views in Azure datalake for front-end reports on large customer transactions data in Azure Synapse Studio with Spark SQL.
- Modelling Predictive advisory on Onboarding, Churn, Tier Migration, Service failure, etc with R, Python.
- Query optimization and version control with Azure DevOps and Git

11/2021 - Team Lead, Customer Behavior Analysis | CLM 12/2023 Polaris Bank LTD

- * Led a group of segmentation managers in analyzing customer behavior, which resulted in a 20% increase in customer retention. This was achieved through the development and deployment of machine learning models for predicting customer churn, achieving conversion by 30%.
- * Streamlined the data collection and preparation process, reducing data cleaning time by 50%. This involved automating the collection, cleaning, and analysis of large datasets from various sources/API calls catering to thousands of customers on a daily basis using SSMS, R, and PowerQuery.
- Optimized hyperparameters of machine learning models using grid search, achieving a 15% improvement in model performance. Furthermore, I collaborated with the ML engineering team to develop and deploy scalable data pipelines and models using Python, SQL, and Azure cloud platforms.
- Introduced new feature engineering techniques that improved model interpretability and performance. Additionally, I applied advanced statistical and machine learning techniques to extract insights and generate reports for clients and stakeholders, raising transaction volumes in billions from resulting targeted campaigns.
- * Ensured the scalability and efficiency of ML systems, enabling real-time predictions on large volumes of data

12/2020 - Data Analyst 11/2021 SurveyPlus LTD

- * The automation of data collection and analysis processes, along with the deployment of efficient machine learning models, led to a significant reduction in the operational costs of the business. Specifically, we were able to cut down on manual labor costs and reduce the time spent on data preparation by 50%.
- Played a key role in developing a fraud detection system using advanced machine learning techniques. This system was able to identify and prevent fraudulent activities, saving the company millions in potential losses.
- * The fraud detection system not only prevented financial losses but also helped in improving the company's reputation and customer trust. This indirectly contributed to an increase in customer retention and a decrease in customer acquisition costs.

01/2020 - Info. Technology / Teaching and Advice 12/2020 Salem Secondary School

- * Designed and delivered engaging lessons on programming, web development, data analysis, and machine learning.
- Mentored students on their projects and helped them develop their skills and interests in Information Technology.
- Incorporated real-world examples and applications of AI into the curriculum and to inspire students to pursue further education or careers in this domain.

04/2019 - Machine Learning Intern 12/2019 Coven Labs

- * Curated and Outlined ML content and Review Sessions for monthly Data Analysis Bootcamps.
- * Monitored conversion metrics with Google Analytics and Google My Business.
- Performed other duties and followed through on work commitments.

06/2017 - Research Assistant

10/2018 Dept. Demography and Social Statistics,

- Built and maintained a data pipeline, using software packages: SPSS & STATA, from ODK to MS Excel to create exploratory analysis on target features that influenced Retirement Lifestyle among the aged in South-western Nigeria.
- Produced and submitted a comprehensive report on Family Planning among fecund female adults in llesa-west LGA, Osun State.
- Performed other duties and followed through on work commitments.

Education

12/2022 - National Open Univeristy, Nigeria

Present * Pursuing a Masters in Business Administration

04/2014 - Obafemi Awolowo University, Ile-Ife, Osun State

Pursued BSc in Applied Statistics, achieved 4.39/5.0 CGPA in Demography & Social Statistics.

* Presented Paper on Evaluative Statistical methods in Age Misreporting/Heaping

Personal Info

Portfolio

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Skills & Projects

GoogleAddOn Dashboards
GCP and Google Apps Script
Tabless Pablic - MIX, OLAP
End To End
LLMs - ChatGPT
Microarrices
Streamlit & Google
LLMs - Cohere
Streamlit & Google
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Designing a Bank's Database

Software & Programming Languages

- * Programming Languages: *Python, R, SQL, Google Apps Script*
- * Machine Learning Libraries: TensorFlow, PyTorch, Scikit-learn, tidymodels, Vetiver
- * Data Visualization Tools: *Power BI, Tableau, GGPlot/RMarkdown, Seaborn*
- * Big Data Tools: *Hadoop, Spark*
- * Orchestration: Apache Airflow, Prefect, Airflow, mage, dbt
- * Cloud Platforms: AWS, Google Cloud
- * Web/Dev: **Django | Flask | Streamlit**

Professional Certficates

2024 Microsoft

Al Engineer (Associate)

2024 Data Scientist DataCamp

2023 Google Data Analytics
Google

2022 Data Analytics in Banking
Chartered Institute of Bankers, Nigeria

2021 Data Warehousing *Udemy*

2021 Azure Fundamentals *Microsoft Corp.*

2021 Graduate Trainee

Polaris Bank LTD

2020 Data Analytics & Consulting Internship Forage, KPMG

Papers & Presentation

2024 "Towards Fairness and Efficiency: A Low-Weight Computer-Aided Model for Melanoma Detection with Racial Bias Handling." (Review)

2018 "Evaluation of Household Age Data in the Nigerian Demographic and Health Survey, 2013"

2017 "Mass Media: Assessing Fertility Rates with Family Planning, A case study of Ilesha, Osun State"