

PRINCE DURU

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Machine Learning Engineer

SOFTWARE ENGINEERING | INSIGHTS GENERATION | PROBLEM SOLVING

SUMMARY

Data-focused problem solver with ability to understand and articulate complex business problems into data-driven analysis and insights for senior level decision makers. Adept at working with team members to increase data comprehension and value using Statistical Methods, ML models, data mining and visualization. Highly adaptable to emerging technologies with an innovative mindset of continuous learning and improvement.

KEY SKILLS

| | | |
|-----------------------------|-------------------------|-----------------------------|
| Natural language processing | Data analytics | IT project Management |
| Statistical analysis | Dashboarding | Software security |
| Feature engineering | Database administration | Object oriented programming |

- **Packages:** Tableau, SciKit-Learn, NumPy, Pandas, NLTK, Matplotlib, Seaborn, StatsModels, QGIS, Google BigQuery, GitHub
- **Statistics/Machine Learning:** Linear/Logistic Regression, SVM, KNN, Ensemble Methods, Decision Trees, Random Forest, Clustering,
- **Core Data Stack:** Oracle, MS Server, SQL, PostgreSQL, MySQL, Python, Linux/AIX Unix, Google Analytics

WORK EXPERIENCE

Data Science Analyst 1000ML, Toronto, Canada

Jan. 2020 – Mar. 2021

1000ML is an AI-based start-up which specializes in delivering solutions to clients across diverse domains

- Extensively used Pandas for exploratory data analysis and machine learning models to predict customer churn and customer loyalty on clients' websites
- Worked with stakeholders to understand business requirements and business rules for data analytics project implementations.
- Used Tableau to build visualizations, dashboards, graphs, and reports which provided business insights, visibility into critical metrics, and provided recommendations to relevant stakeholders
- Worked with team to implement Natural Language Processing and recommender engine capabilities in client's website. Page recommendation is given to visiting clients based on input search text.
- Comfortable with AWS cloud technologies as well as frontend technologies – JavaScript, HTML and CSS.

Key Achievements

- Developed text analytics proof-of-concept for Government of Ontario SME digital assistant comprising site scraping, development of site topology, site content summarization with BERT, topic modeling and page recommendation with Top2Vec ML model.
- Implemented route optimization for Fleet Management System using Geo-Spatial data by identifying and reducing routes with high idling, longer completion time and higher left turns. Potential cost savings from analysis is over \$150,000 per year on fuel consumption. **Analytics tools used: QGIS, Geo-Pandas and Scikit-Learn**

- Designed a customer segmentation strategy for a 10,000-customer base client that enhanced target marketing of client realizing 20% increase in sales conversion. **Machine Learning Algorithms used: K-Means and K-Prototype (In Python)**

Data Analyst

Jan. 2016 to Nov. 2019

First Bank Nigeria, West Africa*First Bank is a tier-1 retail bank in Nigeria with branches across West Africa and footprints in the UK, UAE and China*

- Drove value and quality initiatives related to data used in analytics and production environment
- Administered and managed enterprise production databases (Oracle and MS SQL Server, PostgreSQL), troubleshooting and resolving issues as required
- Proficient use of SQL for data analysis and for extracting data from various databases.
- Conducted research to identify and resolve problems to maintain quality and accurate data standards while ensuring data integrity to optimize accurate reporting

Key Achievements

- Analyzed large data sets from service tracking applications and extracted actionable insights used to up service performance to 95%
- Worked with team members to automate manual database backups using Dell EMC enterprise backup solution
- Helped to achieve A+ audit rating for the Data Centre team by implementing data governance standard practices

EDUCATION

Advanced Diploma, Software Engineering – Artificial Intelligence

Centennial College, Toronto, ON

Jan. 2021 - Present

*Expected graduation: Apr. 2023***Data Science – Online Course**

SimpliLearn/IBM Master's Program

Jan. 2020 - Dec. 2020

Master's in Business Administration

Enugu State University, Nigeria

Sept. 2012 – Aug. 2014

Bachelor of Science, Industrial Chemistry

Abia State University, Nigeria

Sept. 2000 – Aug. 2005

CERTIFICATIONS

OCP (12C) – Oracle Certified Professional**CISA** – Certified Information Systems Auditor**CISSP** – Certified Information Systems Security Professional**PMP** – Project Management Professional