Kazzah Emmanuel Samuel

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PROFESSIONAL SUMMARY

Aspiring Data Scientist and Mathematician with a strong foundation in statistical analysis, machine learning, and data-driven problem solving. Recently completed a series of hands-on projects, including car price prediction, sales forecasting, iris flower classification, email spam detection, and analysis of unemployment rates in India. Proficient in Python, R, and data manipulation tools such as Pandas and NumPy, with experience in building predictive models, performing exploratory data analysis, and applying machine learning algorithms like regression, classification, and clustering. Eager to leverage analytical skills and mathematical expertise to provide actionable insights and contribute to data-driven decision-making in a dynamic business environment. Committed to continuous learning and growth in the rapidly evolving field of data science.

SKILLS

- **Technical Skills:**
- Programming Languages: Python (including libraries such as Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn)
- **SQL** (for querying databases)
- **Data Science, Machine Learning Data Visualization:** Exploratory Data Analysis (EDA), Statistical Analysis and Hypothesis Testing, Supervised Learning, Unsupervised Learning, Model Evaluation and Validation, Time Series Forecasting, Matplotlib, Seaborn, Power BI or Tableau.
- **Mathematical and Statistical Foundations:**

  Probability and Statistics, Linear Algebra and Calculus, Optimization Techniques

Work Experience

Data Science Intern at Oasis Inforbyte: During the internship at Oasis Infobyte, data science principles were applied to solve practical challenges, gaining hands-on experience with data analysis, machine learning, and presenting actionable insights. My key projects include:

- **Car Price Prediction:** Collected and preprocessed data, focusing on factors such as fuel type, transmission type, selling price, present price, manufacturing year. Built and evaluated machine learning models, including Linear Regression and Random Forest. Achieved an R^2 score of 0.83 and an RMSE of 1.86 through cross-validation.
- **Email Spam Classifier:** Designed a classification system to identify spam and non-spam emails using various machine learning models, including Multinomial Naive Bayes, Gaussian Naive Bayes, Bernoulli Naive Bayes, and Linear Regression.
- **Unemployment Rate Analysis in India (2019-2020):** Performed time-series analysis to observe trends before, during, and after the pandemic onset. Utilized Python libraries like pandas, matplotlib, and seaborn for data visualization to highlight unemployment rate fluctuations.
- **Iris Flower Classification:** Leveraged the classic Iris dataset to build a machine learning model that classified flower species based on petal and sepal dimensions.

Education

Kaduna State University   *Sept 2017 – March 2023*
Bsc. in Applied Mathematics

- GPA: 4.27/5.0
- **Coursework:** Probability, Calculus, Numerical Analysis, etc.
- **D**ata Science Professional Certificate - PORA Academy

- **P**ower BI for Data analysis - PORA/IKEIF Academy
- **S**QL Essentials - Linkedin
- **A**dvanced Excel for Data analysis - Great Learning Academy

Projects

Car Price Prediction ↗

Email Spam Classifier ↗

Iris flower Classification ↗

Sales Price Prediction ↗

Unemployment Rate ↗

Technologies

Languages: Python, SQL

Technologies: Power Bi, Matplotlib, Pandas, Numpy, seaborn, Excel.