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| Rowland Aren Moses  AI & Data Science Specialist  Address:  Plot 348, Apo Mechanic Village, Apo, 900104, Abuja – FCT, Nigeria  *Phone: Email:*  *+234(0)9065605463* [*mosesrowland9@gmail.com*](mailto:mosesrowland9@gmail.com) |

***Summary***

I am an AI and data scientist with a strong foundation in physics and computer science, specializing in AI, software engineering, robotics, and embedded systems. With expertise in developing machine learning models, data analysis, and visualization, I am passionate about leveraging technology to solve real-world problems. My background in physics (B.Sc.) and computer science (PGD) fuels my innovative approach to building intelligent systems and collaborating with teams to deliver impactful solutions***.***

***Education***

* **National Discharge Certifica**  **11/2021 - 11/2022**

National Youth Service Corp (NYSC)

* **Bachelor of Science (BSc) Physics 03/2016 - 07/2021**

University of Agriculture, Makurdi -Benue, Nigeria.

* **O-levels: West African Senior Secondary Certificate (WAEC). 09/2009 - 06/2015**

GIPAT Intercontinental College, Gwargwaje, Zaria - Kaduna, Nigeria.

***Work Experience***

**Python AI & Data Science Instructor & Professional Trainer**

**Aptech Asokoro, Abuja**

**06/2024 - Present**

* Design and development of comprehensive AI and data science training materials and curriculum.
* Training delivery by conducting training sessions, workshops, and seminars providing hands-on coding exercises and real-world data science projects.
* Technical expertise and demonstrated proficiency in Python, AI and data science libraries such as Tensorflow, Keras, Scikit-Learn, pandas etc.
* Assessment and evaluation of trainee’s progress, also providing feedback and offering guidance and mentorship.
* Continuous improvement and communications, staying updated with industry trends, continuously improving training programs and effectively communicating with technical and non-technical audiences.

**AI & Machine Learning NAIDT**

**National Center for Artificial Intelligence and Robotics (NCAIR) Abuja** **07/2023 - 11/2023**

* Data mined, prepared, and explored data to gain insights using SQL queries and Python scripts.
* Assisted in developing machine learning models using TensorFlow, PyTorch, Scikit-learn, Keras frameworks.
* Worked closely with cross-functional teams including software engineers and project managers using Git version control and Jupyter Notebook collaboration tools.
* Presented findings to both technical and non-technical stakeholders using PowerPoint presentations and Word documents.
* Document and report codes, model architectures, experiments, and project summary using Markdown syntax and LaTeX equations.
* Gained skills in computer vision, natural language processing, speech recognition, and text to speech systems by working on various AI projects and tasks.

**Science Teacher**

**Community Secondary Grammar School, Mbo - Akwa Ibom state,**

**12/2021 - 11/2022**

* Developed and implemented science curriculum aligned with the national standards and objectives.
* Delivered engaging and informative science lessons to students using various teaching methods and materials.
* Assessed and evaluated students’ learning outcomes using quizzes, tests, projects, and assignments.
* Managed classroom behavior and discipline using effective strategies and techniques.
* Supervised science-related extracurricular activities such as clubs, projects, and competitions involving science concepts and tools.

***Skill Highlights***

***Technical skills:***

* **Computer Programming Languages**: Python, SQL and C++.
* **Artificial Intelligence (AI)**: Machine Learning Algorithms, Deep Learning, Natural Language Processing (NLP), Computer Vision,
* **Data Science**: Data Wrangling, Data Visualization, Data Analysis, Data Modeling, Data Mining, Manipulation and Explanatory Analysis.
* **Database Management**: Relational Database – MySQL and Non-Relational - MongoDB.
* **Version Control with Git and GitHub**.
* **IT Technical Support and Operating Systems**: Windows and Mac.

***Soft skills:***

* Adaptability and Learning Agility.
* Problem Solving.
* Collaboration and Effective Communication.
* Research.
* Cross-Cultural Competency.
* Innovative Service-Focused.
* Project Management.

***Certifications***

* **Google IT Technical Support**  **09/09/23**

Coursera Certification.

* **Artificial intelligence and Machine learning** **27/07/23**

National Center for Artificial intelligence and Robotics (NCAIR)

* **Applications of Artificial Intelligence**  **24/07/23**

La Plage Meta Verse

* **Data Analytics** **15/06/23**

Alexander Freberg Data Analytics Boot camp

***Projects/Achievements***

* **HIV Surge Prediction Model - Data Science and Machine Learning (Duration: 20/09/23 – 09/10/23)**
  + Built and trained a supervised machine learning model using Scikit-learn and pandas to predict HIV infection pattern in Federal Capital Territory (FCT) based on socio-economic and health data, gotten from the Institute of Human Virology Nigeria (IHVN), Abuja.
  + Conducted exploratory data analysis using Matplotlib and seaborn to visualize and understand the data and understand the data distribution and correlation.
  + Evaluated the model performance using R-squared (R2), Mean Square Error (MSE), Root Mean Squared Error (RMSE), mean Absolute Error (MAE) metrics.
  + Recommended optimal strategies for HIV prevention and intervention based on the model predictions and insights.
* **Gender-Based Violence (GBV) Analysis - Data Science (Duration: 17/08/23 - 29/08/23)**
  + Performed descriptive and inferential statistics on a dataset of gender violence cases using NumPy and SciPy.
  + Identified the key factors and patterns associated with gender-based violence victims using hypothesis testing and correlation analysis.
  + Generated interactive dashboards and reports using Power BI and Matplotlib to communicate the findings and insights to the clients.
  + Provided evidence-based solutions and recommendations to address the problem of gender-based violence in Nigeria.
* **AI Life Expectancy Prediction Model Competition - Machine Learning (Duration: 27/07/23 - 07/08/23)**
  + Created and trained an AI model using XGBoost algorithm to predict life expectancy of humans based on factors such as age, gender, income, education, health status, etc.
  + Preprocessed the data using feature engineering, scaling, encoding, and imputation techniques.
  + Achieved an accuracy of 90% in predicting the life expectancy of humans on the test set.
  + Ranked among the top 10% participants in the competition on the Kaggle platform hosted by National Center of Artificial Intelligence and Robotics (NCAIR).

***Awards***

* **NAIDT AI Developers Best Participant Award.**

National Center of Artificial Intelligence and Robotics (NCAIR) subsidiary of NITDA, Abuja, Nigeria.

***Ongoing Education/Professional Development***

* **Postgraduate Diploma (PGD) Computer Science**

Nigerian Defense Academy, Kaduna State.

* **Professional Diploma in Software Engineering**

IDEAS Project - Baze University Abuja, FCT.

* **Power Learn Project**

Software Development.

***References***

* **Available Upon Request**