Rowland Aren Moses
AI & Data Science Specialist

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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**