Tomi Adewuyi

Data Scientist
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SKILLS

- **Programming Languages & Tools:** Python • SQL • Power BI • Jupyter Notebook • Git • Docker • Linux • MATLAB
- **Frameworks & Libraries:** scikit-learn • TensorFlow • PyTorch • Pandas • NumPy • SciPy • Matplotlib
- **Data Science & Machine Learning:** Random Forests • Neural Networks • Support Vector Machines • Deep Learning • LLM • NLP • Hypothesis testing • Multivariate Statistics • Big Data • Time-series Forecasting • Predictive Modelling • Network Analysis • Geo-spatial Analysis • A/B Testing
- **Big Data Platforms, Databases and Cloud Computing:** Spark • SQL • AWS • Microsoft Azure • Snowflake
- **Soft Skills:** Problem Solving • Excellent Communication • Adaptability • Interdisciplinary Collaboration • Physics • Creative

PROFESSIONAL EXPERIENCE

University of New Hampshire, Durham, NH
Researcher *August 2018 – Present*

- Developed and maintained robust data pipelines that processed and cleaned large datasets from various scientific satellite missions, ensuring data integrity and quality.
- Performed exploratory data analysis and feature engineering to extract actionable insights from complex satellite datasets.
- Designed and implemented advanced multivariate analysis techniques to explore magnetometer station data, leading to the creation of comprehensive network graphs.
- Applied cutting-edge statistical modeling and deep learning algorithms to predict global temperature variations, resulting in highly accurate forecasting models.
- Conducted A/B testing and model validation to ensure robustness and accuracy of predictive models.
- Collaborated with interdisciplinary teams, including scientists, engineers, and product managers, to optimize data processing workflows.

Center for Integrated Space Weather Modeling, Boulder, CO
Researcher *June 2019 – July 2019*

- Analyzed space weather data to assess its impact on critical infrastructure, leading to actionable insights and preventive measures.
- Utilized advanced statistical models to predict and mitigate telecommunication disruptions, enhancing the reliability of communication networks during space weather events.
- Collaborated with interdisciplinary teams to evaluate the effects of space weather on various sectors, including aviation and transportation, and communicated findings through detailed dashboards.

New Jersey Institute of Technology, Newark, NJ
Researcher *August 2015 – May 2019*

- Employed advanced data analysis techniques to investigate ultra-low frequency waves in space.
- Conducted multivariate statistical analysis and applied machine learning algorithms for data interpolation.
- Developed data visualization tools to present complex research findings to both technical and non-technical stakeholders.

PROJECTS

NASA 2023 SPACEAPPS Challenge

- Engineered features using dimensionality reduction techniques to enhance model performance.
- Employed state-of-the-art deep learning algorithms for time series forecasting of solar processes, achieving high predictive accuracy and reliability.

EDUCATION

PhD in Physics
August 2018 – July 2024
University of New Hampshire, Durham, NH

Bachelor of Science in Physics
August 2015 – May 2018
New Jersey Institute of Technology, Newark, NJ