

Haruna Asifat

Data Analyst|Geospatial & GIS Analyst|IT Support

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PROFILE

Experienced Data Analyst with a strong background in applied remote sensing, image processing, and GIS. Proficient in geospatial data analytics, statistical modeling, data visualization, time series analysis, and machine learning. Passionate about leveraging data to address complex challenges across diverse fields.

EXPERIENCE

SMARTCREW | IT SUPPORT

Dec. 2022 – Present | Rheinland-Pfalz, Germany

- Set up and manage user accounts, permissions, and security settings.
- Diagnose and resolve technical issues related to operating systems, applications, and network connectivity.
- Perform routine maintenance and updates on systems, including software patches and security updates.

BASF DIGITAL FARMING GMBH | DATA ANALYST (INTERN)

Aug. 2022 – Nov. 2022 | Köln, Germany

- Supported the development of machine learning (ML) models for predicting different crop phenology across disparity regions, environmental conditions, and farm practices using python and AWS.
- Analyzed and reported the global impact of the transitioning from one weather vendor to another (whose services provide crucial weather data used to generate features for simulating plant phenological processes) on the performance of our deployed models using in-house KPIs.
- Analyzed the gaps in the available ground truth data, which we used to train and validate our models. Results allowed us to assess the quality of available data and identify areas and growth stages where observations are inadequate.

ENG CONSTRUCTION LTD | GIS CONSULTANT

June 2021 – Aug. 2021 | Lagos, Nigeria

- Monitored and mapped building deformation with satellite imagery using geospatial analysis techniques.
- Validated the map product with samples of ground-based observations.

GEO4SOLUTIONS | GIS ANALYST

Feb. 2016 – Sep. 2017 | Lagos, Nigeria

- Developed efficient and automated processes for data cleansing, validation, and reconciliation to meet the data quality standards of our clients.
- Designed, implemented, and managed an efficient GIS-based data collection process during field surveys.
- Created and maintained a geodatabase for ongoing projects, and validated map products using modern GIS tools and techniques.

PROJECTS

AUTOMATED CHANGE DETECTION FRAMEWORK | PYTHON

- An automated data processing of fused dense time series satellite imagery (optical and SAR) is utilized to detect forest disturbances, including deforestation and bark beetle infestation, among others.

ETL PROCESS | PYTHON

- Efficient data management operations were carried out to harmonize data from disparate sources, ensuring seamless integration and consistency.

OTHERS

Sentiment Analysis • Image Classification

CERTIFICATIONS & COURSES

- IBM Data Engineering Professional Certificate (anticipated Sep 2023)
- IBM, Python for Data Science, AI & Development (Dec.2022)
- EUMETSAT, Application of machine learning approaches to ocean colour mapping (Nov. 2021)
- NASA, Agricultural Crop Classification with SAR and Optical Remote Sensing (Oct. 2021)
- RUS Copernicus - Fire Damage Assessment with Sentinel-3 and Sentinel-5P
- ESRI- Image processing with ArcGIS (Dec. 2017)

SKILLS

PROGRAMMING

Python • R • SQL • JavaScript
Bash • HTML

GIS

ArcGIS(PRO) • QGIS • FME
ERDAS • ENVI

DBMS

MySQL • PostgreSQL • SQLite
IBM Db2 • MongoDB

LIBRARIES

GDAL • Arcpy • PyQGIS • Pandas • Geopandas • Numpy • Xarray • Dask • Keras • PyTorch • Scikit-image • Scikit-learn • Scipy • Snappy • HARP • ISCE • Matplotlib • Plotly • Seaborn

TOOLS/PLATFORMS

Git • Google Earth Engine • AWS • PowerBI • Airflow • Hadoop • Docker • JIRA
MS Office (Excel, PowerPoint, Words)

EDUCATION

UNIVERSITY OF TRIER

Master of Science (M.Sc.) Environmental Remote Sensing and Modelling
GPA:1.6

FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

Bachelor of Technology (B.Tech.) Meteorology and Climate Science

INTEREST

Cycling • Solving puzzle
•Playing scrabble and table tennis • Meeting people