RAJ MODI

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Note: To view my Geo-spatial web applications, please visit my GitHub page.

PROFESSIONAL SUMMARY

A Geo-spatial and Satellite data science graduate and a skilled python code developer, passionate about Geo-spatial data, Earth Observation (EO), Remote Sensing(RS) offering expertise in various EO, RS and Machine Learning related jobs, placements and projects involving data analysis, manipulation, transformation, and visualisation. With exceptional interpersonal and relationship-building abilities, can communicate complex analytical concepts, adapt to new environments.

EDUCATION

University of Leicester, Leicester   09/2021 - 06/2023
Master of Science: Satellite Data Science

Expertise: Geo-spatial and Satellite data processing with Python programming language, Spatial data management with MySQL, PostGIS, Geo-spatial Web application development (Folium, leaflet, Mapbox), Cloud computing (GCP), Remote sensing and Earth Observation data analysis.

WORK HISTORY

Research Assistant – University of Leicester   07/2023 - Present

- **Kinetic Hydro Ltd** is a river turbine manufacturer, who are compassionate about providing electricity to off-grid communities in Uganda. I'm working with them under **Innovate UK** program to realise their proof of concept to estimate kinetic energy in river Ugandan streams using GIS, hydro-logical and Satellite data, through developing an UI (User-interface) web application using GCP (Google cloud platform) services. The Web App demo is found here.

TECH STACK

- ArcGIS and QGIS (Geo-databases, Geographic Information Systems).
- Geo-spatial front end (Mapbox, Leaflet, Streamlit, folium)
- Modular Python Programming, R programming language.
- Integrated development environment - VS Code, GitHub version control.
- Cloud computing - Google Colab, Google Cloud Platform, AWS.
- Linux User (Ubuntu), Bash scripting

REFERENCES

- Kevin Tansey (Prof.)- Professor of Remote Sensing, University of Leicester, Leicester. Email: kjt7@leicester.ac.uk