Muhammad Tayyab

GIS Analyst

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SUMMARY

A passionate GIS Analyst with experience in geospatial data analysis and visualization, focusing on transforming complex spatial information into actionable insights and intuitive map-based solutions.

EDUCATION

Bachelor of Geographical Information System

University of the Punjab

Lahore, Pakistan

EXPERIENCE

Junior Machine Learning Developer

Cointegration.ai

₩ 01/2024 - Present

Islamabad, Pakistan

 Developed various Machine Learning models using Artificial Intelligence by utilizing different technologies like Lang-Graph, Langchain, LangSmith.

PROJECTS

A Machine Learning Model

Python, Google Earth Engine, numpy

69 https://drive.google.com/drive/folders/1mccSUwvL9DRoHLEP0CiiKqybhka_rf2k?usp=sharing

We developed a Machine Learning by training our model on the previously available data to predict the wheat yield in the Sahiwal Division, with and error of 0.137 tonnes/hectare.

NDVI Time Series Smoothing

R, RStudio

⇔ https://webgisassignment.netlify.app/

Utilized RStudio software to perform Normalized Difference Vegetation Index (NDVI) smoothing for monitoring and assessing vegetation health and dynamics in Sheikhupura district.

Digitization of West-African Countries

GIS, ArcGIS, QGIS

https://drive.google.com/drive/folders/1H6issi4A8G4akwhV0mUrJUu69g01lQVu?usp=sharing

Utilized ArcMap tools to digitize a proper map of West African Countries, creating an accurate digital map.

NDVI Time Series Smoothing

R, RStudio

Utilized RStudio software to perform Normalized Difference Vegetation Index (NDVI) smoothing for monitoring and assessing vegetation health and dynamics in Sheikhupura district.

Object Based Image Analysis for Punjab Region

Classification

Employed eCognition software to conduct Object-Based Image Analysis (OBIA) for interpreting satellite imagery of the Punjab Region.

Land Surface Temperature for Gujranwala and Hafizabad

ArcGIS, QGIS, Digital Mapping

Conducted atmospheric correction on Landsat Level 1 data for the Sheikhupura region using ArcMap.

SKILLS

HTML CSS JavaScript React Node.js Git ArcGIS QGIS Digital Mapping

Machine Learning Python

CERTIFICATIONS

Cartography ESRI

Going Places with Spatial Analysis

ESRI

Spatial Data Science

Shade Equity

ESRI