Supath Dhital

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Summary

I am Supath Dhital an enthusiastic, self-motivated, punctual, passionate learner and Geospatial Data Science Learner from Nepal having an experience of few GeoAI work. As I have a high interest in GeoAI, Spatial Data Science, and working on several projects related to AI and work with satellite image data analysis and data visualization.

Education

Pashchimanchal Campus (W.R.C)   Lamachaur-16, Pokhara Nepal
Bachelor of **Geomatics Engineering**   2018-2023
Relevant Coursework on Earth Science, Geoinformatics, Surveying, Remote Sensing, Cartography, Applications of GIS with Python
Several Satellite Image analysis work as well as Cartographic Practices

REHDON College   Samakhusi, Kathmandu
Computer Science [GPA: 3.71/4]   2016-2018
Relevant Coursework on Physics, Chemistry, Mathematics and Computer Science

Experience

Omdena   Palo Alto California, USA
Junior ML Engineer (Remote)   Jan 2023 - Present
- Predicting the Nitrogen flow from the farm used as Nitrogen fertilizer to the Nitrous Oxide: One of the top contributors to greenhouse gas using Deep Learning on Remote Sensing data and Validating using Ground truth data following IPCC standard
- Accomplished flood prediction in Belgrade, Serbia using Deep Learning from past meteorological water level data of Danube and Sava river and precipitation data
- Done Dark Corridors mapping for Bats in Brussel, Belgium using Computer Vision and Remote Sensing

Humanitarian OpenStreetMap   Washington DC,USA
Data Quality Intern (Remote)   Oct 2022 - Jan 2023
- Done mapping activities of several disaster prone areas as well as digitized geographic features to produce the open 3D geodata which can be used to Governmental bodies or NGOs for post analysis of several natural disasters and so on
- Several Web Maps and thematic Maps practices for Visualizing the Open Geo Data

Pashchimanchal Campus   Lamachaur -16, Pokhara Nepal
Predicting weather patterns in Kaski District   Jun 2022 - Feb 2023
- On behalf of the final year project (thesis) of undergraduate, me along with my team have predict the precipitation and temperature from past meteorological data and satellite netCDF data and compare them

Drone Data Processing   Jan 2023
- Done Drone data abstraction , processing, digitizing of whole Paschimanchal Campus

Activities & Extracurriculars

Participatory Mapping, Trainer/ Mapping and Visualizing thematic maps   Jan 2022 - Feb 2022
- Done Mapping work by training the volunteers using OSM and using extracted geodata preparing the thematic maps to convey the message regarding awareness from disasters other emergency periods

Volunteering, Member   2021-2022
- Accomplished as a member of 7th Executive Committee of Geomatics Engineering Students' Society of Nepal (GESAN): Leading organization to provide training, webinars and so many extra curricular activities related to Earth Data, Geoinformatics

Certifications

Machine Learning and Deep Learning Specialization, Coursera	2023
Image processing and Data Visualization with python, seaborn and Xarray, DataCamp	2022
Spatial Data Science: The New Frontier in Analytics, ESRI	2022
Landslide Risk Modeling using Satellite Imagery, The Geohazards Research Seminar, Medellín Colombia with ITC	2022
Geoinformatics Summer School, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS) at Wuhan University	2022
Training/Workshop on DGPS and Terrestrial LiDAR Scanner, Center for Space Science and Geomatics Studies (CSSGS)	2022
Application of Geographic Information System(GIS) Application in Hydrology, SuperMap	2021
WebGIS, Geomatics Engineering Students' Society of Nepal (GESAN)	2021

Skills & Interests

Languages : Native- Nepali, Fluent - English, Fluent- Hindi
Programming, Tools and Environment : Python, Keras, Tensorflow, pytorch, torchgeo, geopandas, Computer Vision, GDAL, Git, PostGIS, MATLAB, Jupyter Notebook, Matplotlib, Xarray, HTML, CSS, Javascript
Softwares : QGIS, ArcMap, ENVI, Pix4DMapper, SNAP, JOSM, Global Mapper, HEC-RAS, Leica Infinity, HEC-RAS