

# Santosh Chapagain

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## Objective

Seeking a fully funded PhD position in Geospatial AI, applying machine learning to remote sensing data for climate and agricultural applications in South Asia.

## Education

B.E. Geomatics Engineering, Institute of Engineering, Paschimanchal Campus, Tribhuvan University (2022-2027)

## Research Projects

- Ensemble ML for NDVI-Based Crop Yield Prediction (SVR, RF, GB, XGBoost)
- Nepal Disaster Alert Dashboard (React, Leaflet, USGS/OpenWeatherMap APIs)
- TerraPulse AI -- Streamlit crop-monitoring MVP concept using Google Earth Engine

## Technical Skills

Python, JavaScript, scikit-learn, TensorFlow, PyTorch, Google Earth Engine, QGIS, ArcGIS, Pandas, NumPy, Git

## Languages

Nepali (native), English (fluent), Hindi (conversational)