Software Requirements for Cyclone Prediction Program.

1. Operating System:
- Windows 10/11, macOS, or any major Linux distribution (Ubuntu, Debian, etc.)

2. Python Version:
- Python 3.7 or later (recommended: Python 3.10+)

3. Required Python Libraries:
Install the following using pip:

pip install numpy pandas geopandas keras tensorflow folium

Library	Purpose
numpy	Array/matrix operations
pandas	Data handling and preprocessing
geopandas	Spatial data handling (optional here, but imported)
keras	Building LSTM neural network
tensorflow	Backend for Keras model training
folium	Creating interactive maps

4. Optional Software (for ease):
- Jupyter Notebook (for interactive development)
- VS Code / PyCharm (IDE for Python)
- Google Chrome (to view the generated cyclone_prediction_map.html file)