

Improvements

1. Mountain NER

It would be beneficial to increase the number of sentences for each mountain name to provide the model with more diverse linguistic contexts. Expanding the list of mountains would also improve the model's generalization, allowing it to recognize a wider range of named entities related to geographical features. Additionally, enlarging the dataset and experimenting with other transformer-based models could further enhance accuracy and robustness.

2. Sentinel-2 image matching

The project can be further improved by using advanced feature detectors and descriptors such as SIFT, AKAZE. Matching accuracy can be enhanced through better algorithms like FLANN, ratio test, RANSAC to reduce false correspondences. Additionally, machine learning models such as CNNs or Transformers can be applied to learn robust feature matching directly from data.