Task 1:

- Better dataset: for now I used data from the website with sentences with word “mountains” and manually changed them to have mountain names. Because of that the dataset contains only 100 samples. So, to boost performance of the model, to this more samples are needed to be added to the dataset. Also, there should be more mountain names for better performance of the model.
- Better model: I used BERT Base uncased model. I think there are better models, that can give better results.

Task 2:

- Better image resolution: Base resolution of the satellite images is 10980x10980, which is very big. Due to limitations of my computer, I can’t inference model with these images, so I resized them to 512x512. This can worsen model performance.
- Model: LoFTR itself has limitations, it needs a lot of memory, so large images can give “Out of memory” error. Maybe there is a model which needs less memory and have almost the same performance, as LoFTR has.
- Training: I used pretrained model, but it would be better if we could train data on these images.