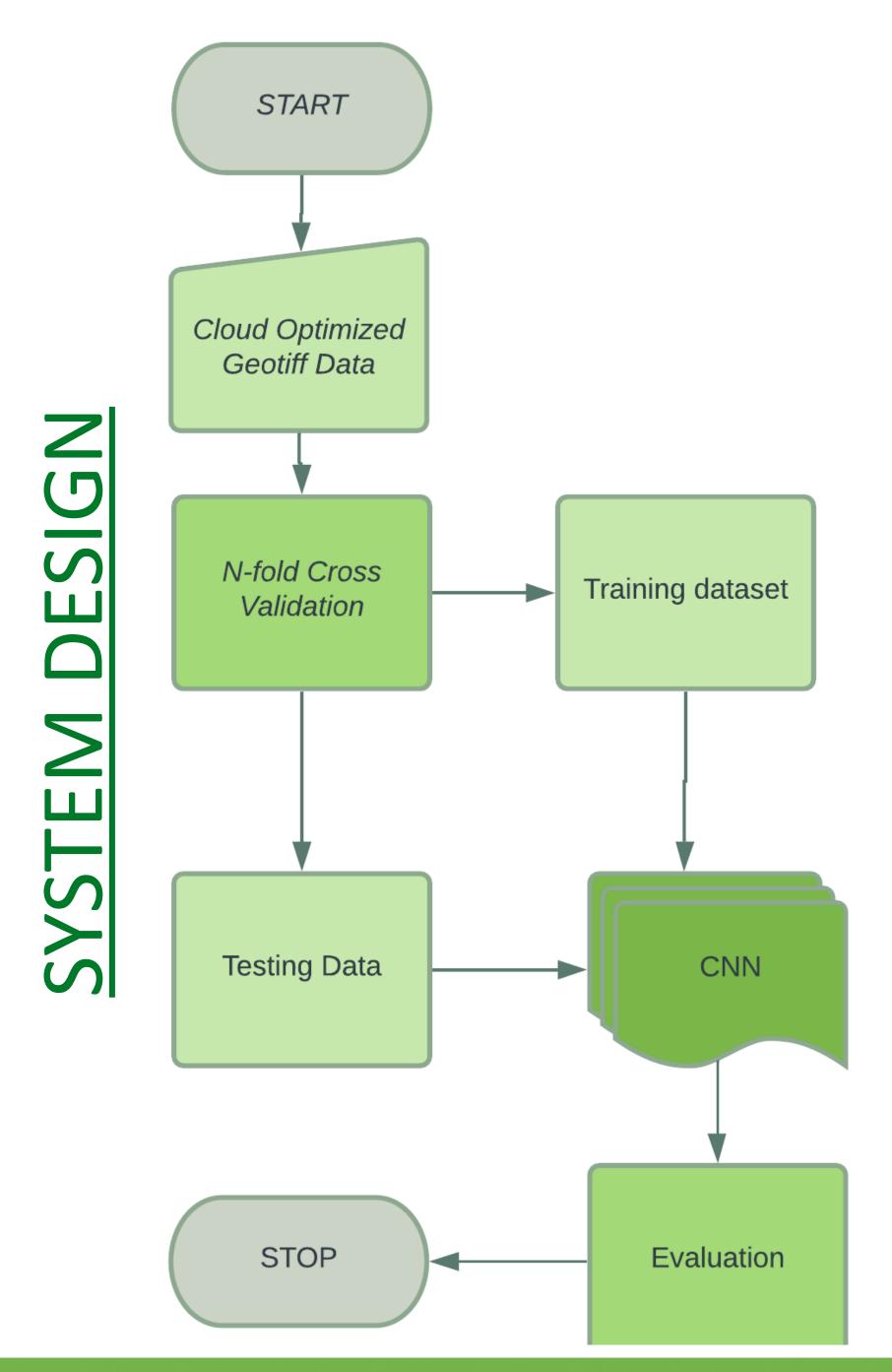


SATELLITE DATA ANALYSIS FOR FOREST DETECTION

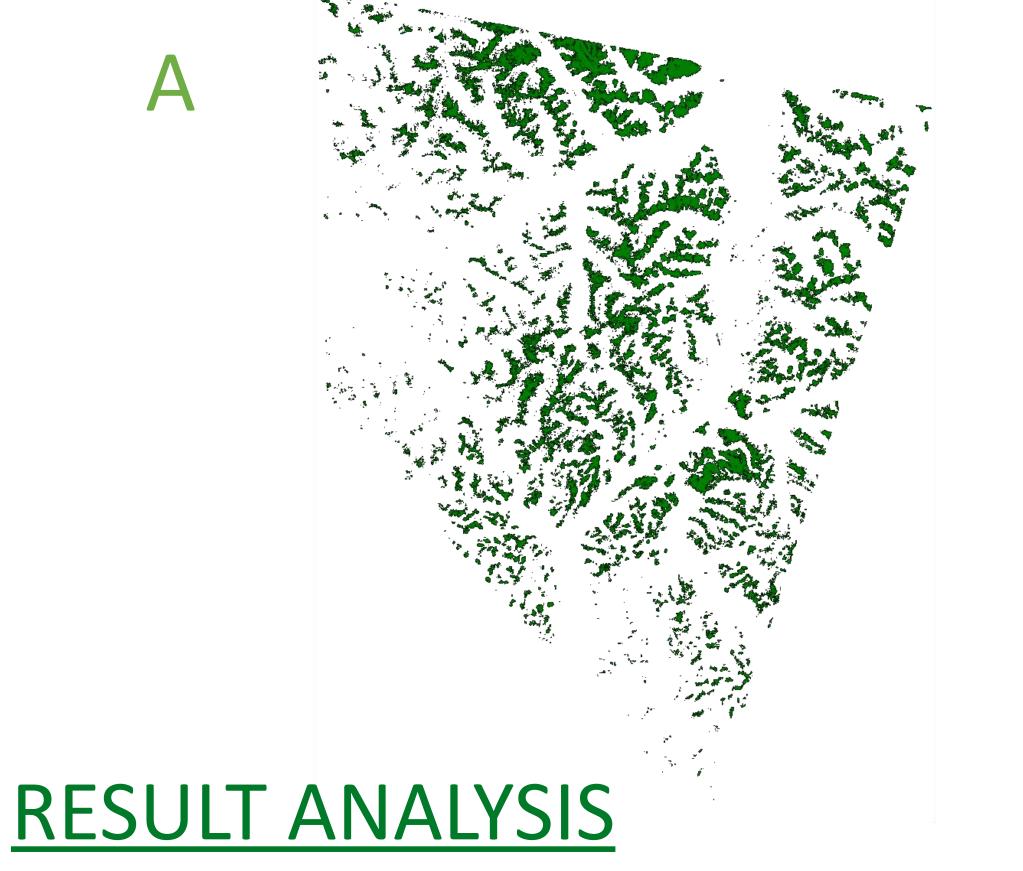


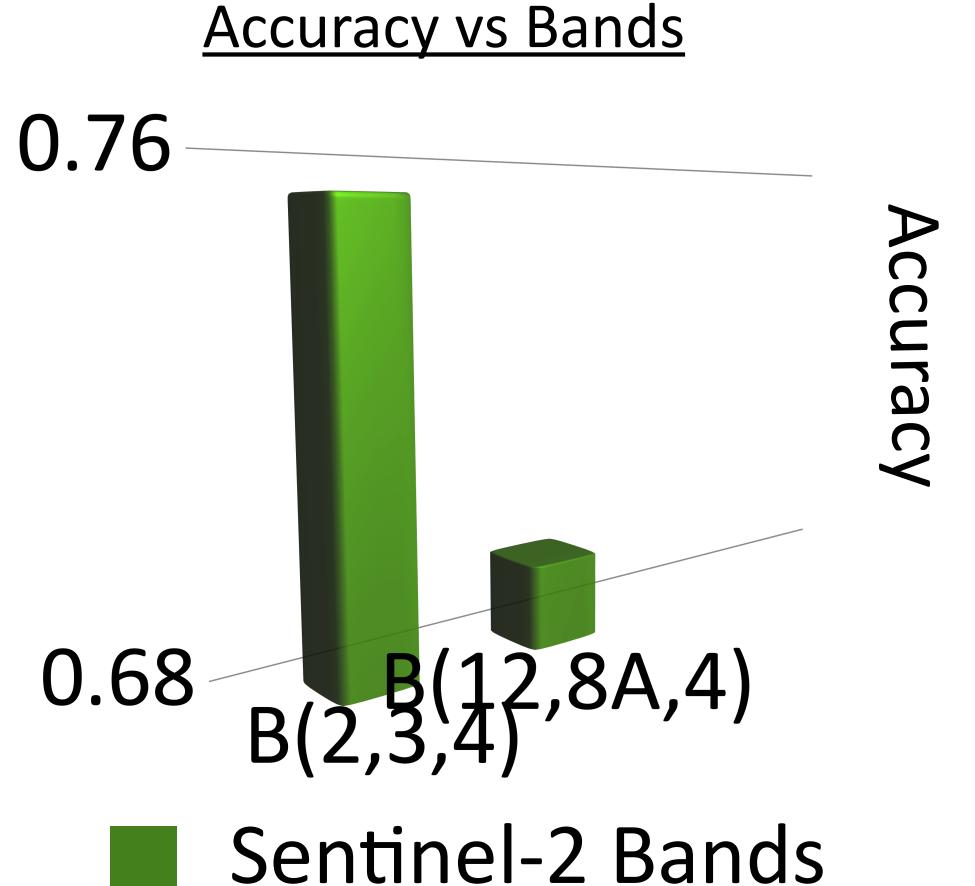
INTRODUCTION

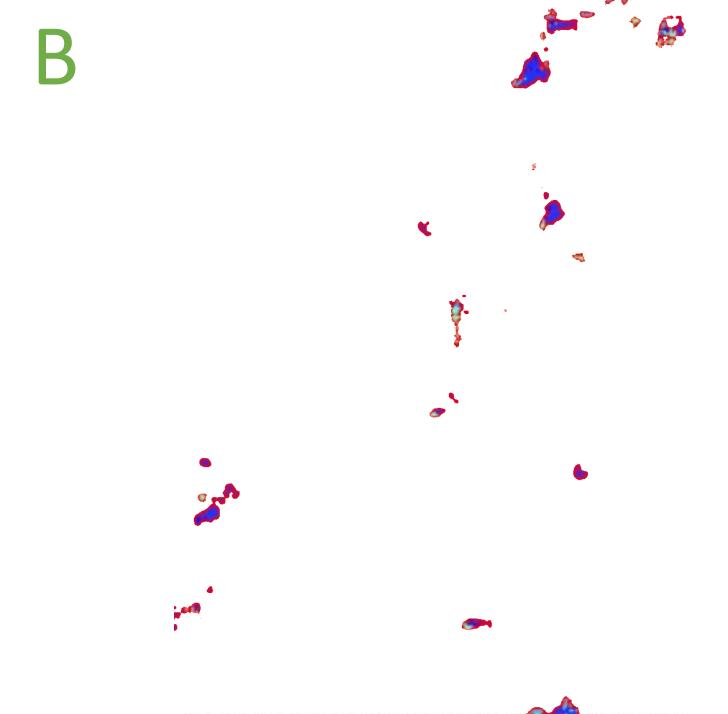
- * How can we automatically distinguish forest areas from rest of the Landcover in a Sentinel-2 scene of BC & hence determine which bands provides better accuracy?
- Sentinel-2 consists of 2 satellites with multispectral imager. This sensor delivers 13 spectral bands, each of 10, 20 or 60 meters in pixel size.



PREDICTED CLASSIFIED IMAGES

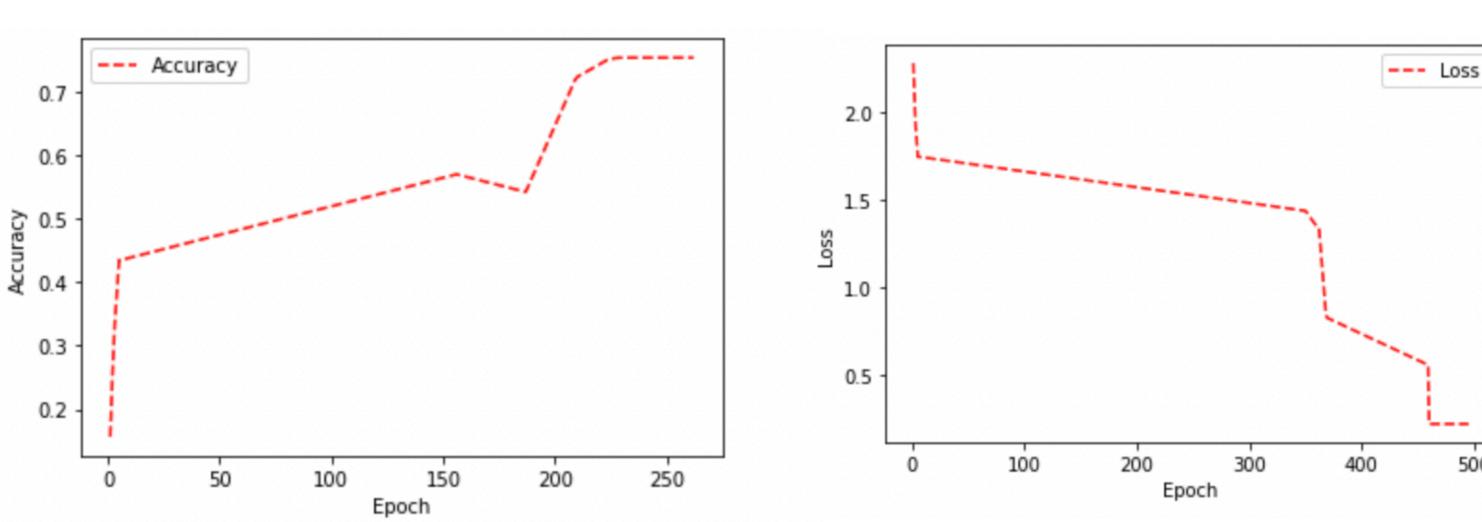




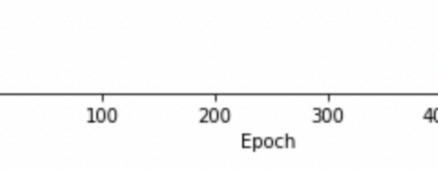


- To the left are predicted BC images of A) unsupervised learning model and B)Supervised learning model (CNN), where the regions in green and blue represent forest areas.
- With epochs >200 the model ran with accuracy of 75.37% for bands 2,3,4.

Training Accuracy vs Epochs



Loss vs Epochs



Epochs



