

Detection of severe weather events from satellite products

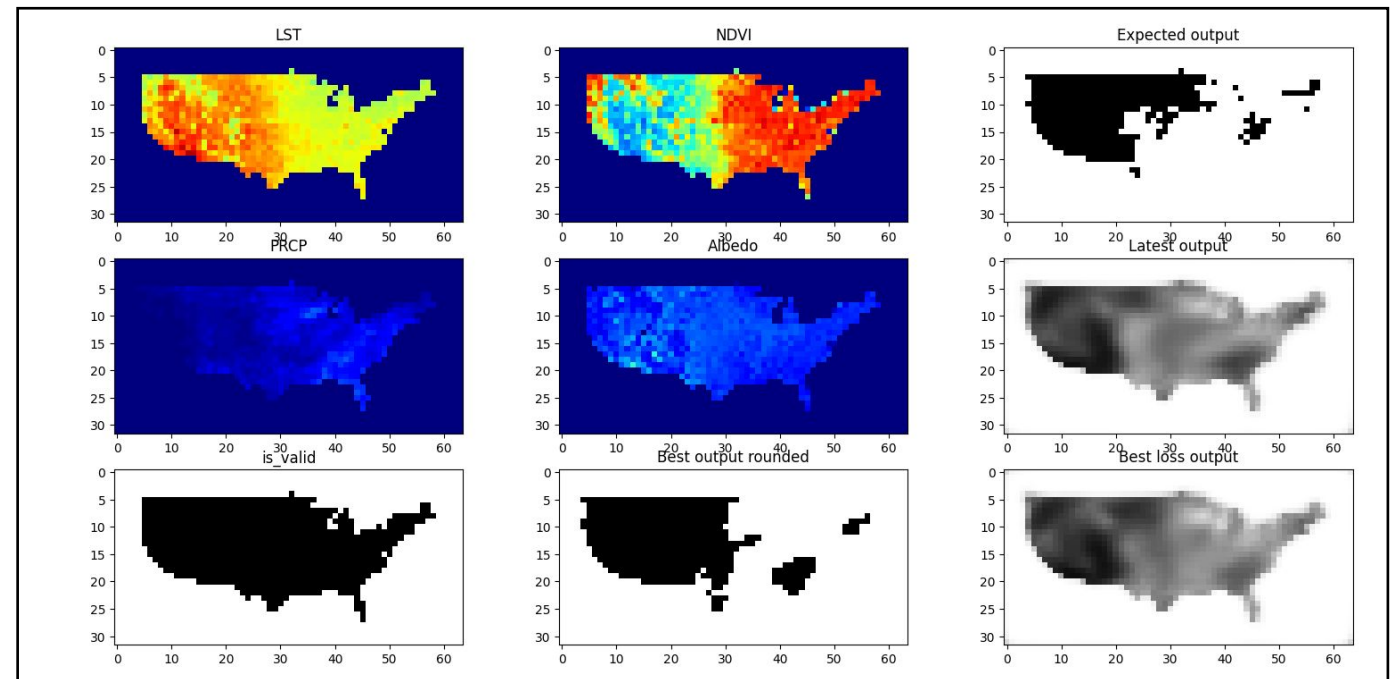
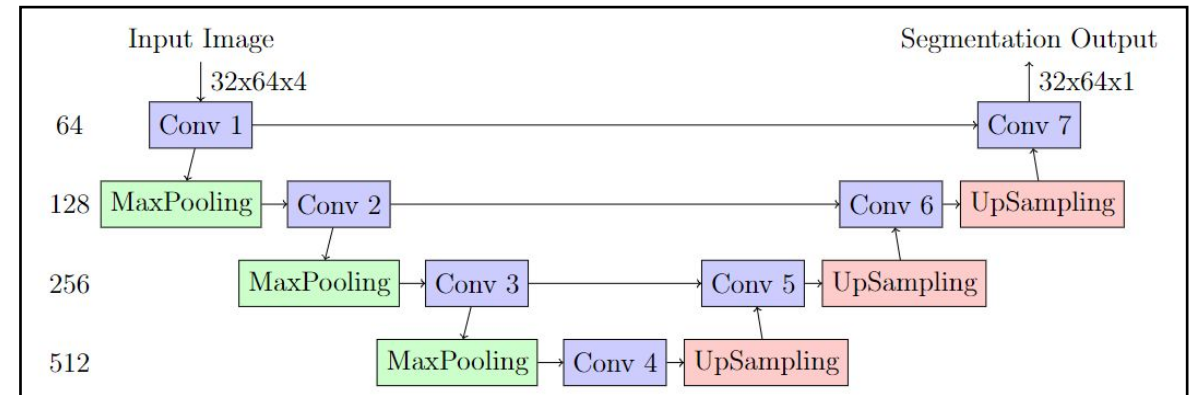
Guang-Lin Wei

Mentors: Dr. Jingjing Peng, Dr. Peng Yu

Objectives

To create a machine learning model capable of detecting drought regions

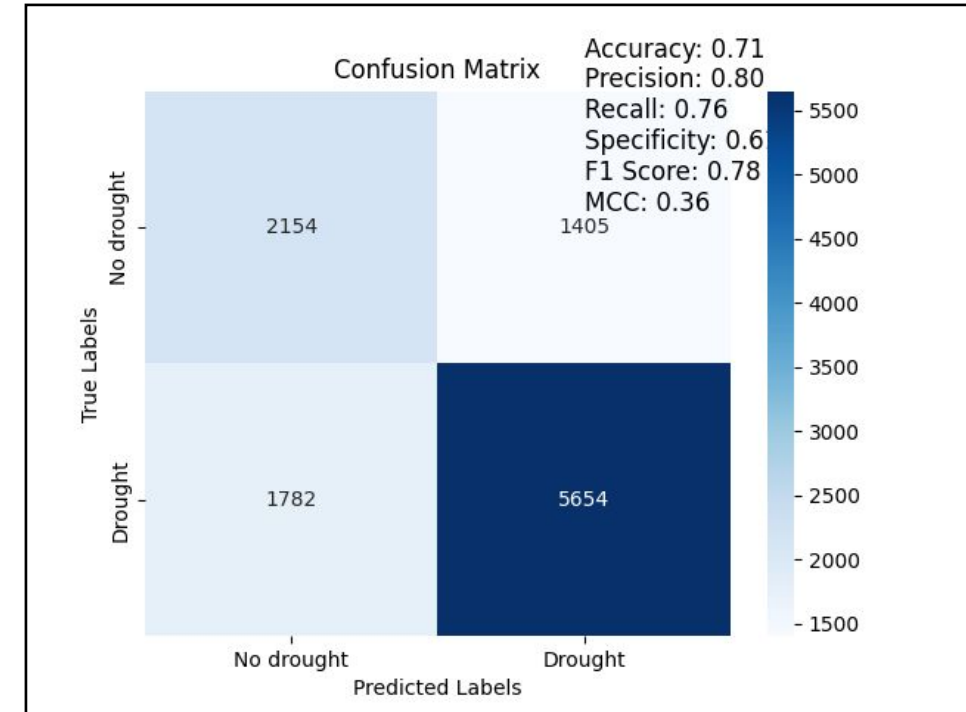
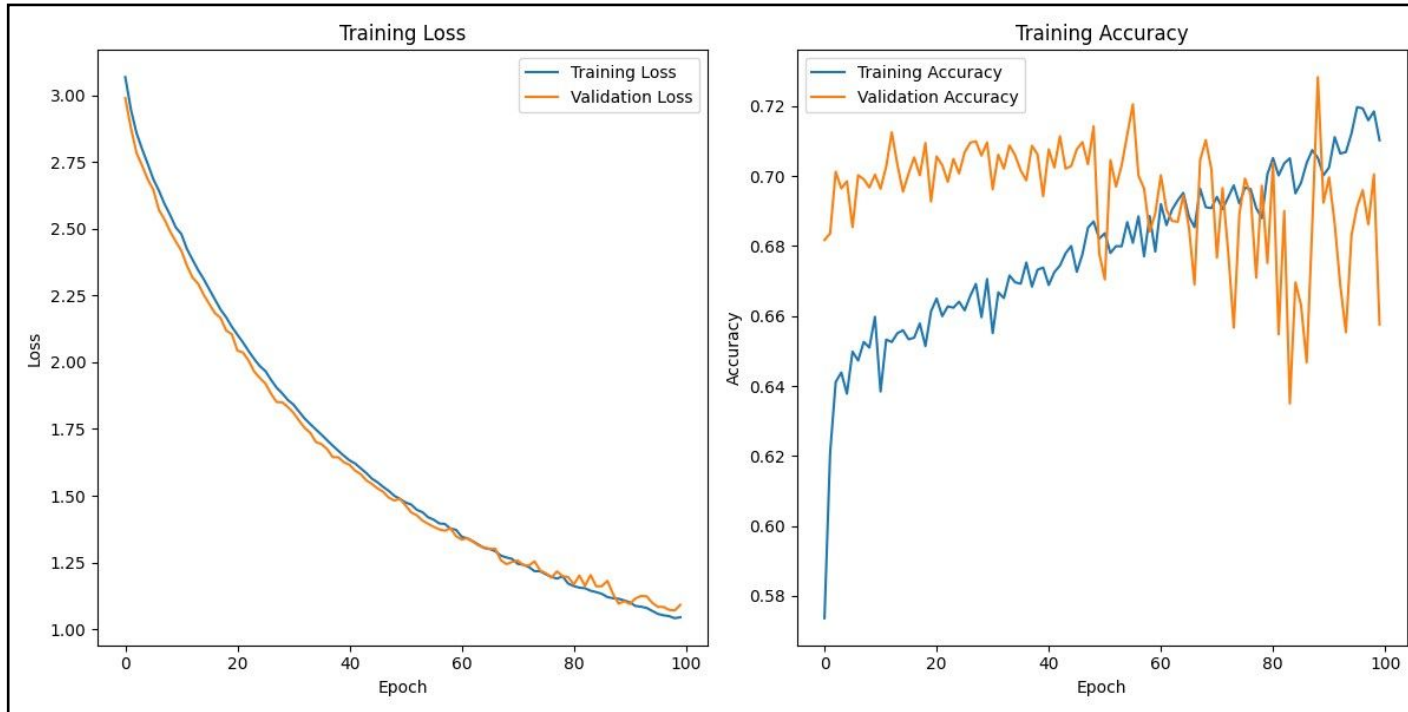
We created a model using the U-Net architecture, which is a type of convolutional neural network designed to output a label for every pixel of an image



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The model's accuracy was 71% for the testing data set
There are some signs of overfitting
MCC=0.36 shows the model found a moderate correlation