

Astronomy CNN with PyTorch – Result Plots

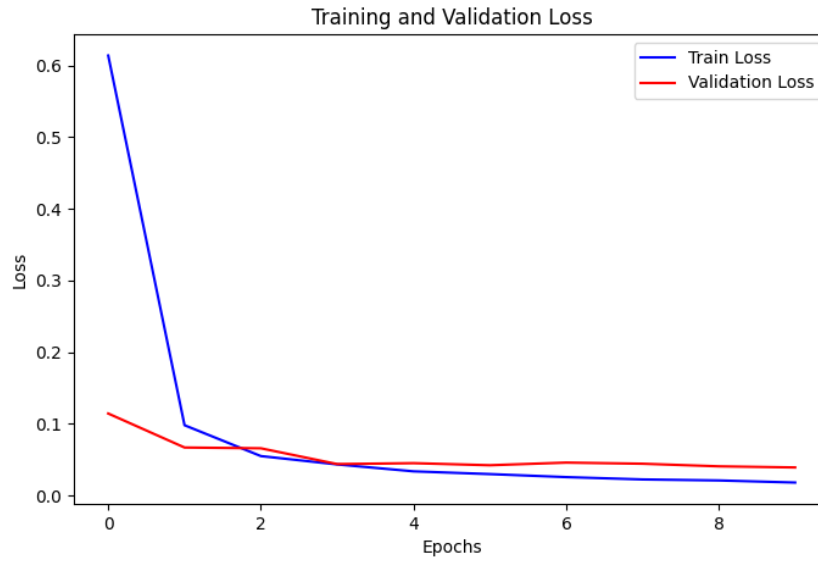


Figure 1: Train and validation loss per epoch.

From Figure 1 we see a decrease as the model goes through the epochs. This experiment used *Batch size = 32, Learning Rate = 0.001, Epochs = 10*. When using 15 epochs (not shown in the chart) the model starts to present overfitting as the train loss slightly decreases and the validation loss started to increase.

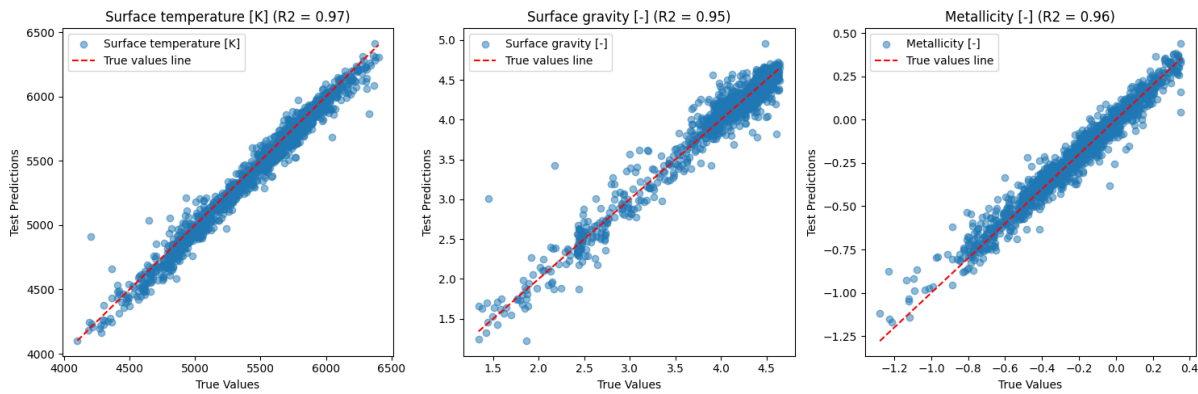


Figure 2: Predicted and true values for each label

From Figure 2, we see the model presented a good performance, using the R^2 metric, in predicting the three labels.