Model Training Documentation

March 10, 2025

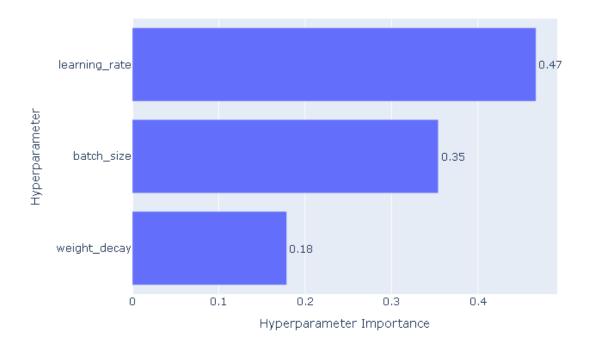
1 Models Comparision

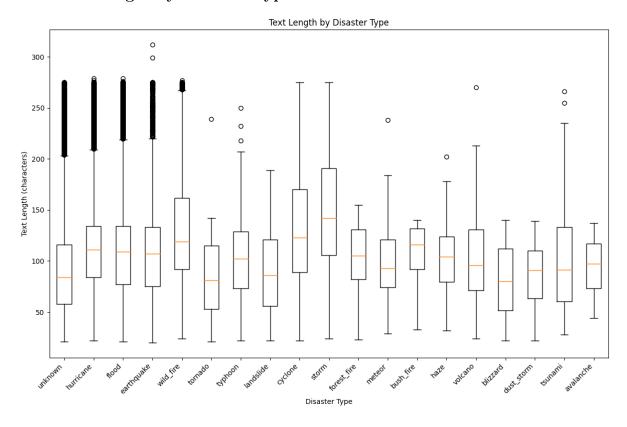
Model Name	Accuracy	$\mathbf{F1}$	Precision	Recall
Roberta	0.8438	0.8378	0.8443	0.8438
ALBERT	0.8327	0.8225	0.8315	0.8327
BertBase	0.8358	0.8253	0.8320	0.8358
DistilBERT	0.8223	0.8102	0.8126	0.8223
ELECTRA	0.8259	0.8124	0.8244	0.8259
XLNET	0.8288	0.8207	0.8298	0.8288

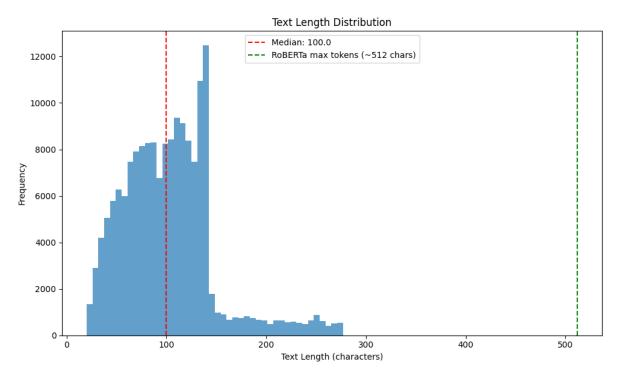
Table 1: Comparison of Model Performance

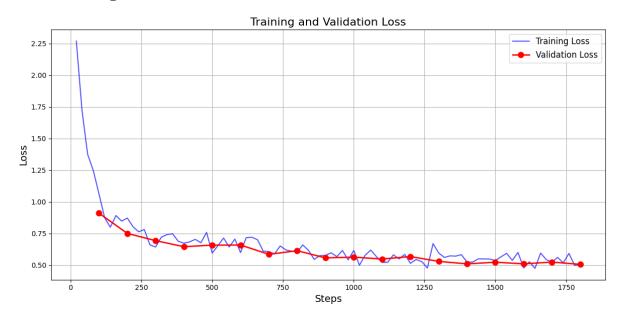
2 Output (RoBERTa)

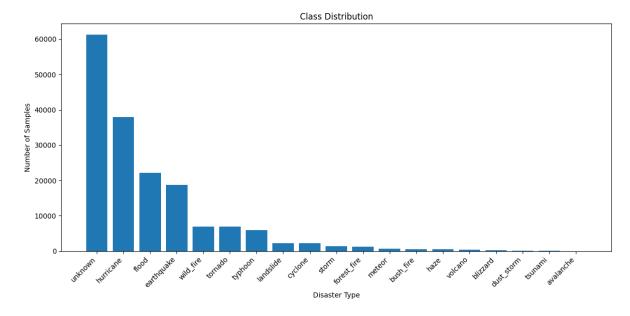
2.1 Hyperparameter Importances

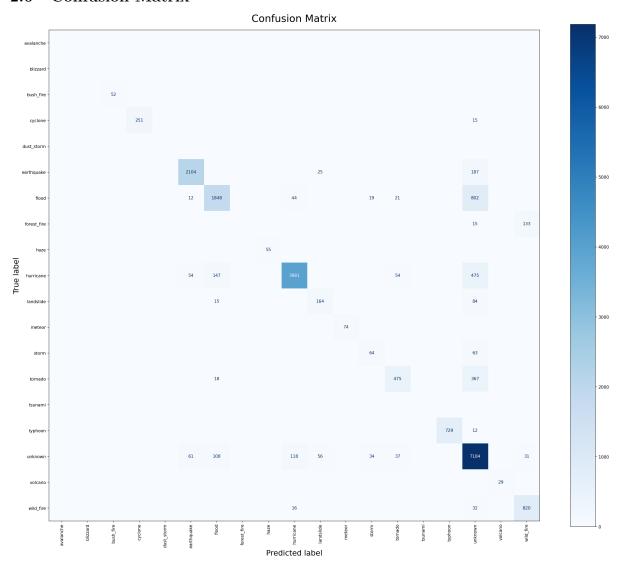


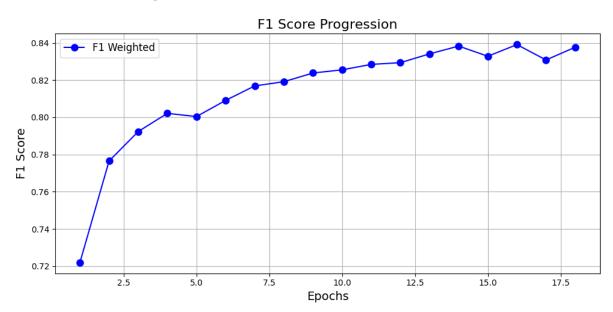


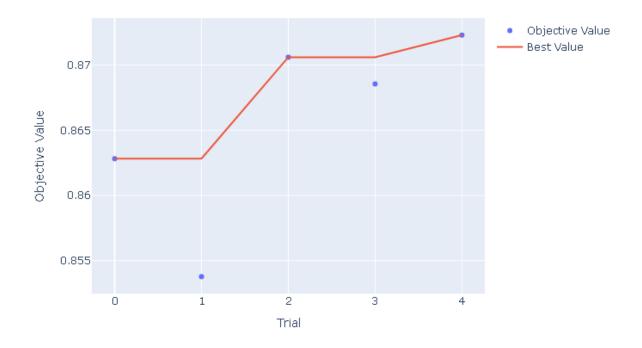






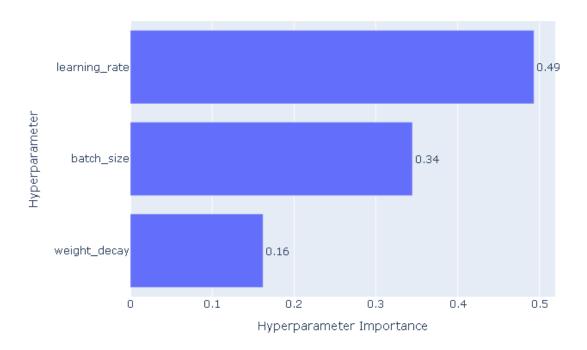


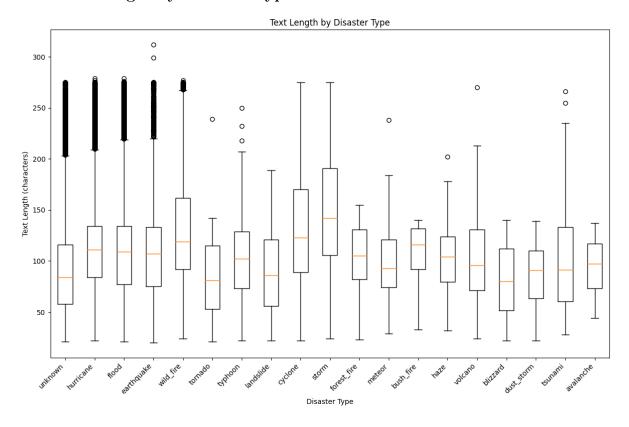


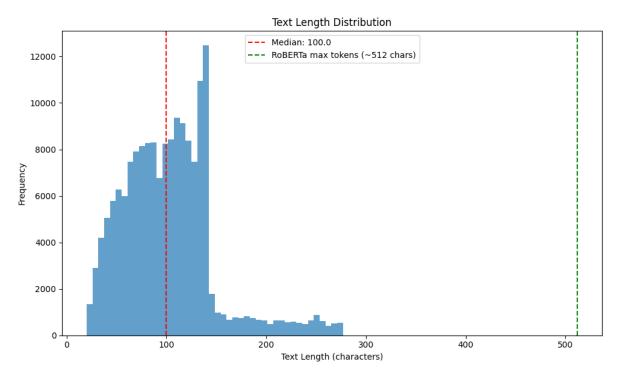


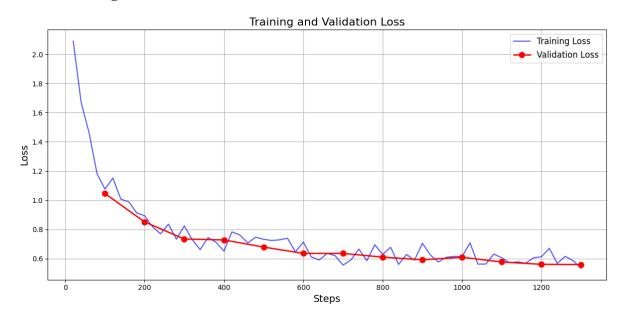
3 Output (ALBERT)

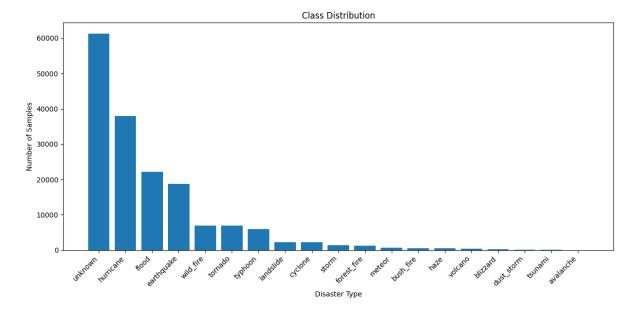
3.1 Hyperparameter Importances

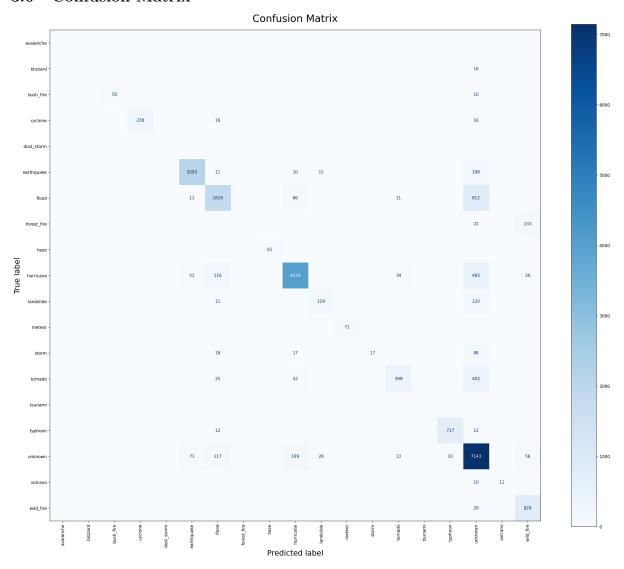


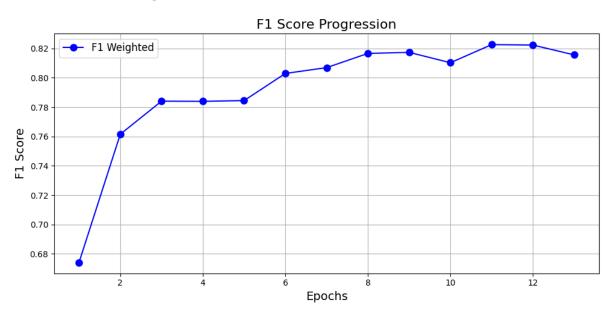


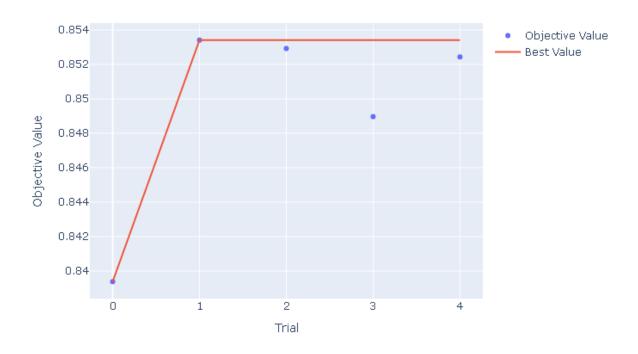






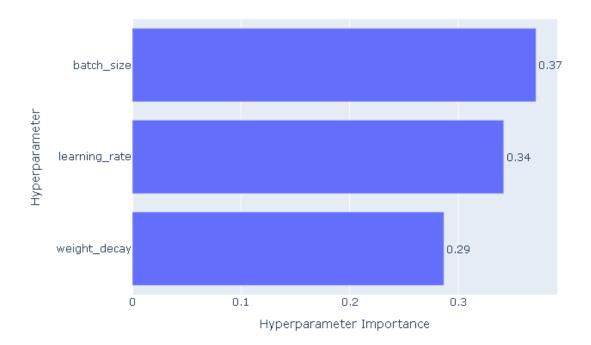


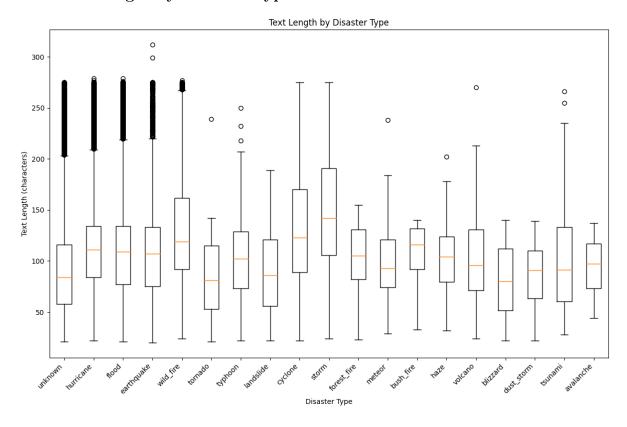


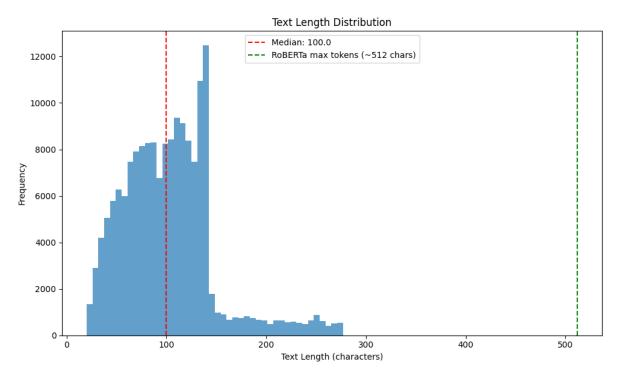


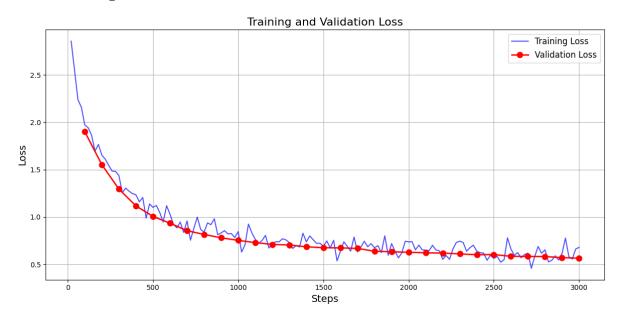
4 Output (BertBase)

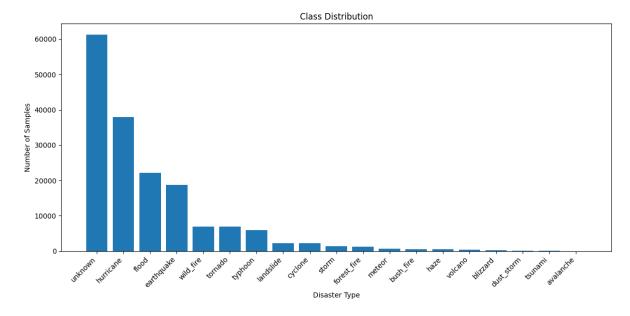
4.1 Hyperparameter Importances

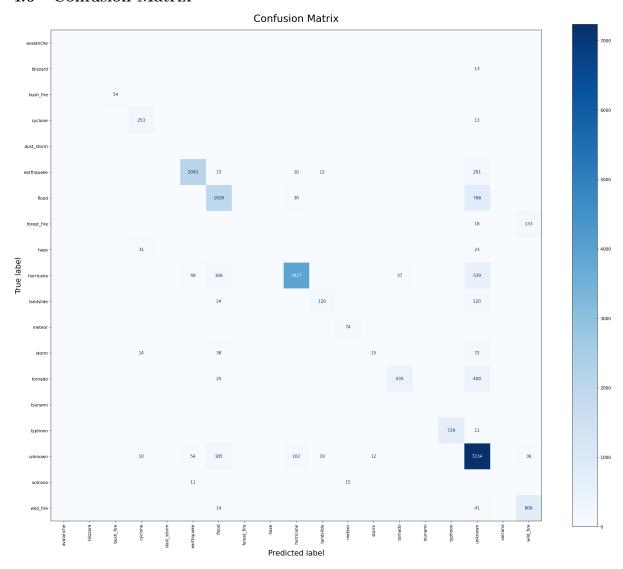


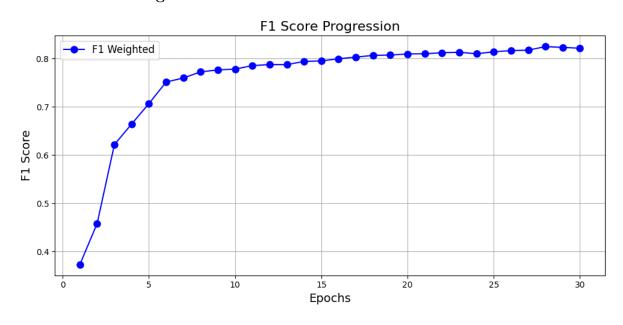


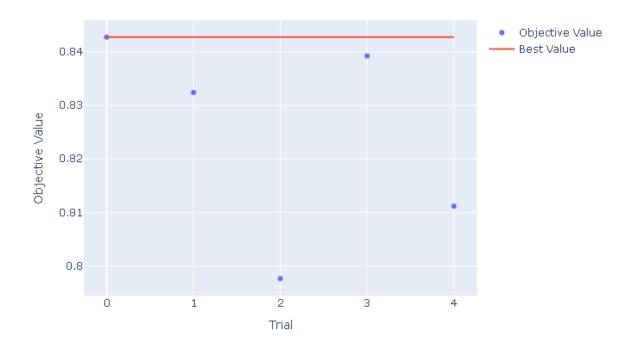






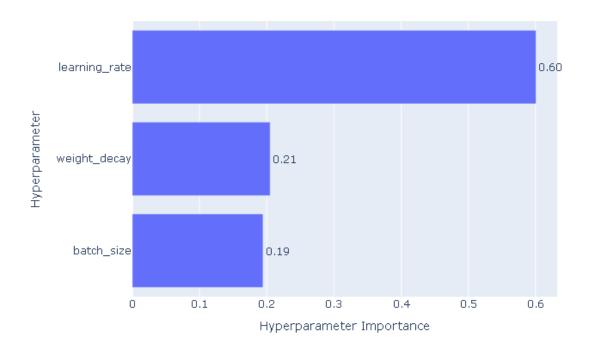


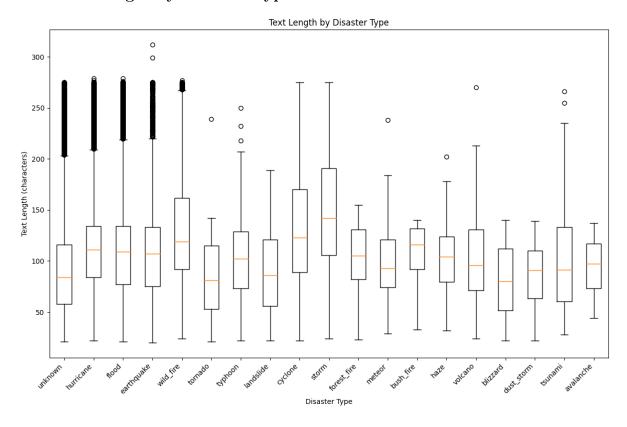


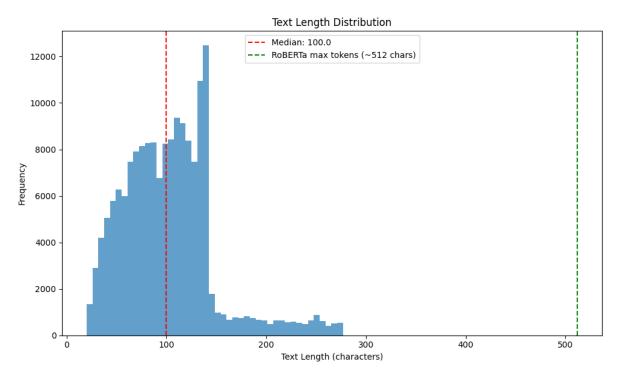


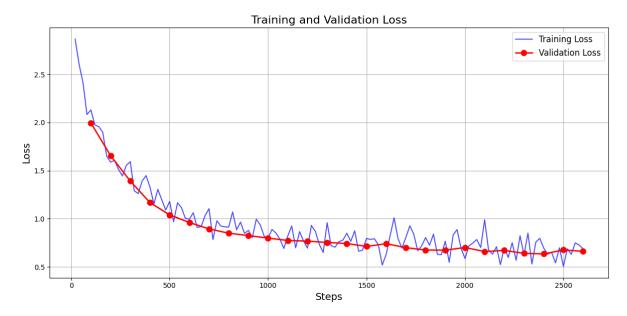
5 Output (distilBERT)

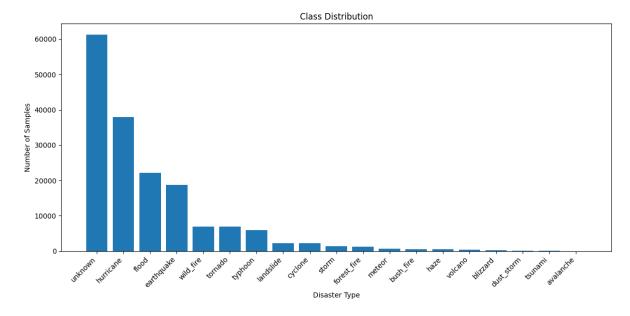
5.1 Hyperparameter Importances

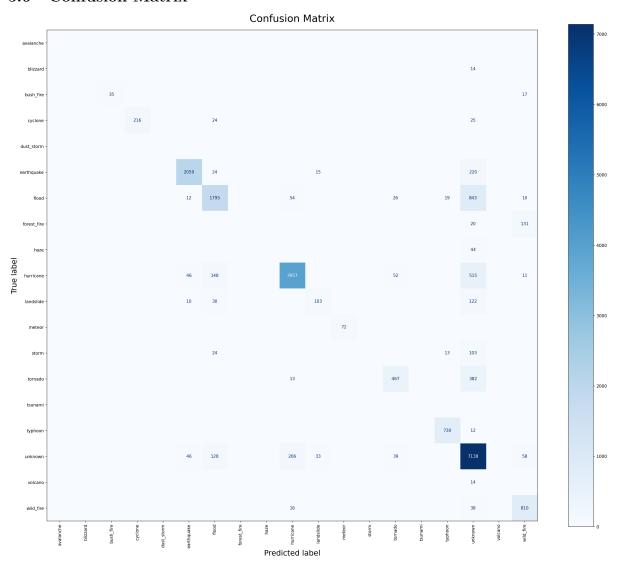


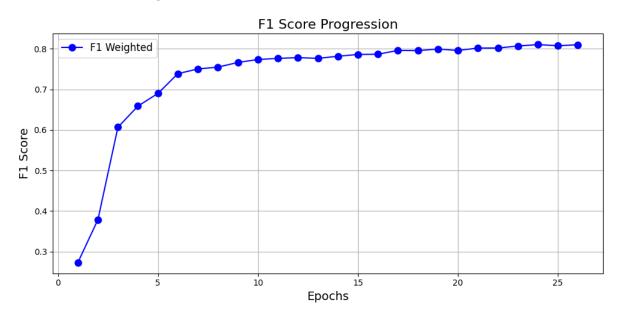


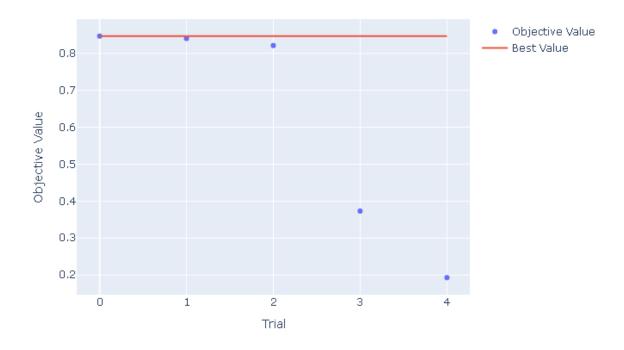






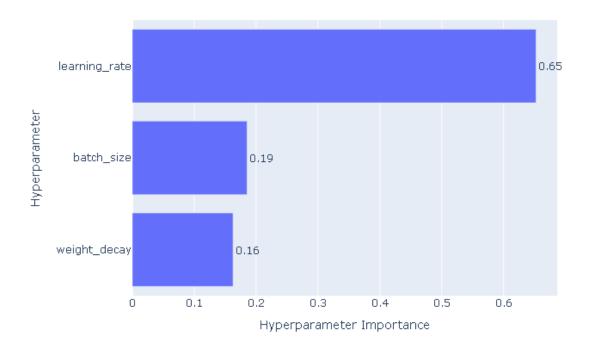


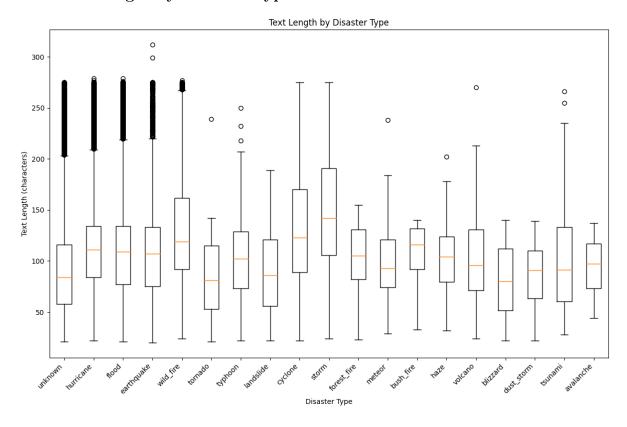


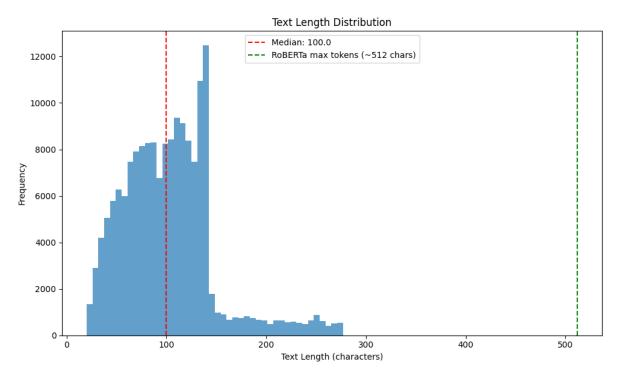


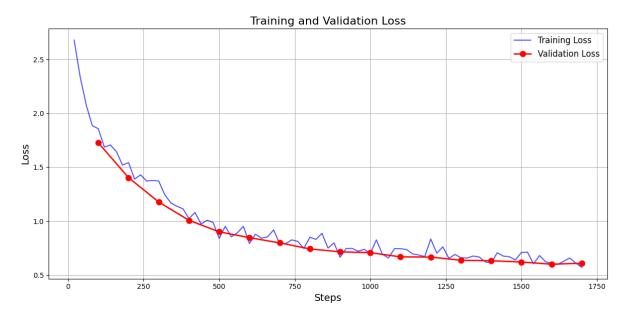
6 Output (ELECTRA)

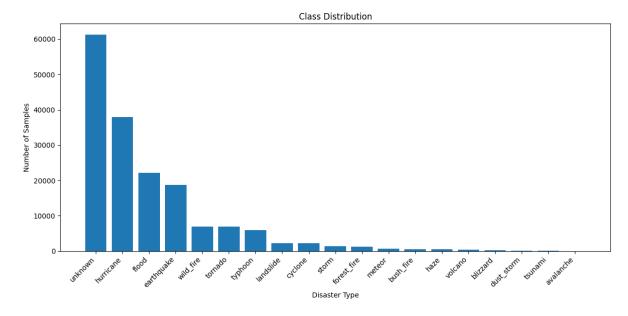
6.1 Hyperparameter Importances

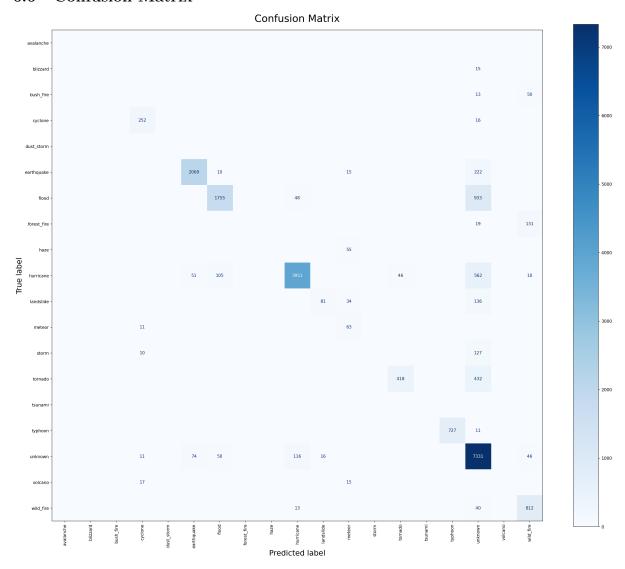


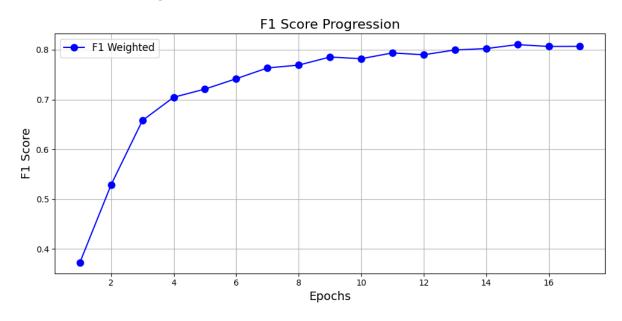


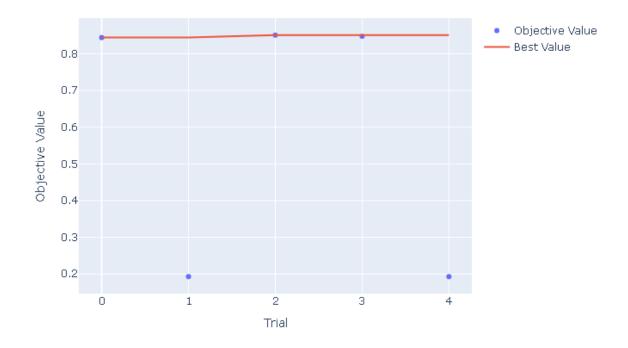












7 Output (XLNET)

7.1 Hyperparameter Importances

