Model Training Documentation

March 2, 2025

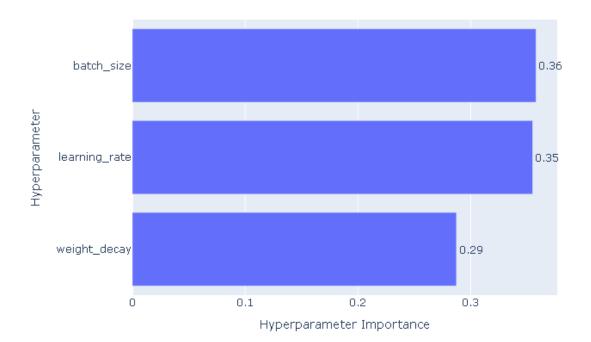
1 Models Comparision

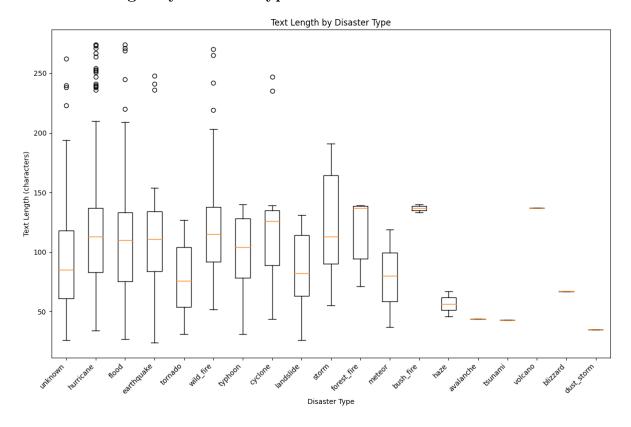
Model Name	Accuracy	$\mathbf{F1}$	Precision	Recall
Roberta	0.7442	0.7302	0.7246	0.7442
ALBERT	0.7222	0.6842	0.6605	0.7222
BertBase	0.7667	0.7548	0.7512	0.7667
DistilBERT	0.7218	0.6789	0.6955	0.7218
ELECTRA	0.7361	0.7118	0.6941	0.7361
XLNET	0.7373	0.7186	0.7146	0.7373

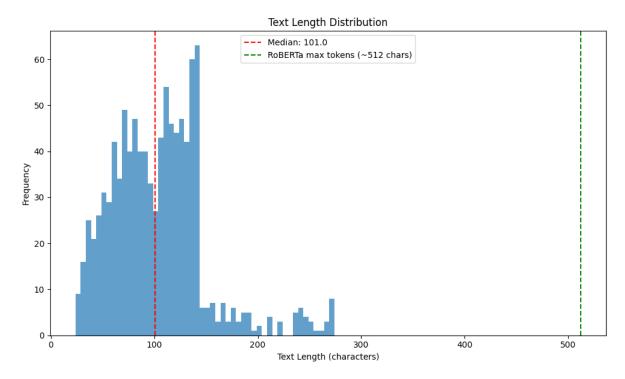
Table 1: Comparison of Model Performance

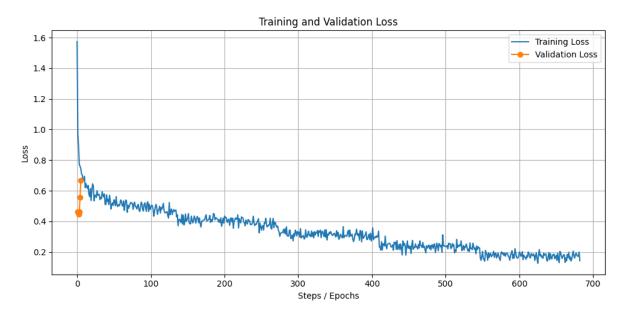
2 Output (RoBERTa)

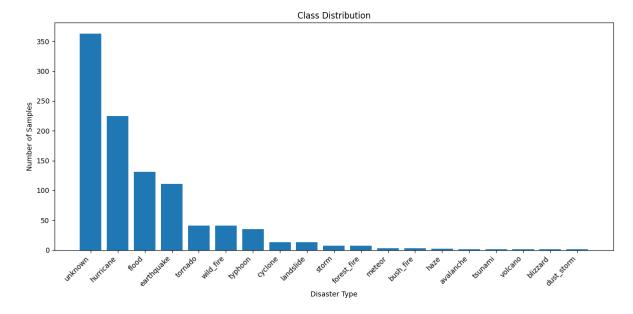
2.1 Hyperparameter Importances



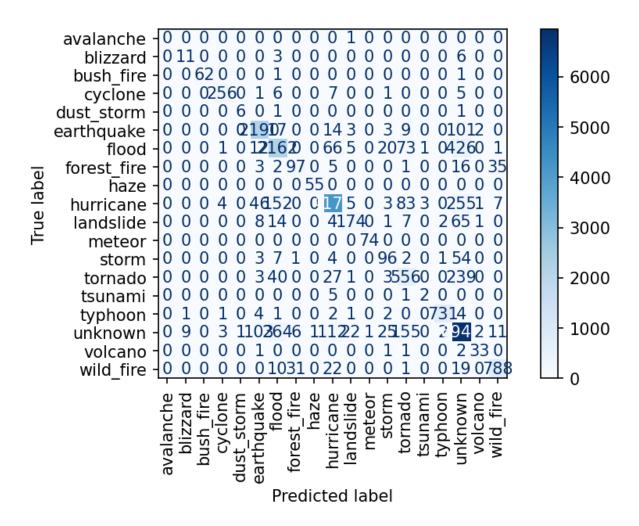


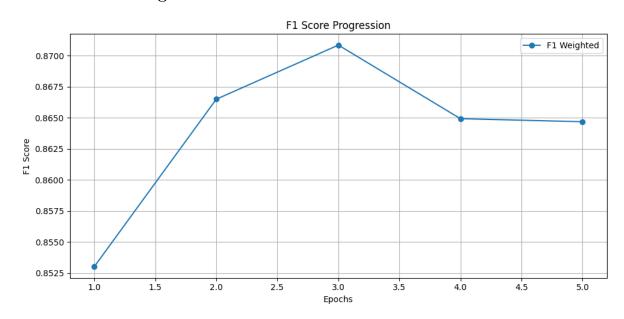


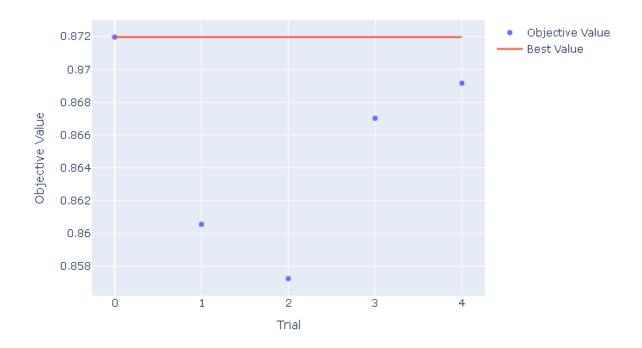




Confusion Matrix

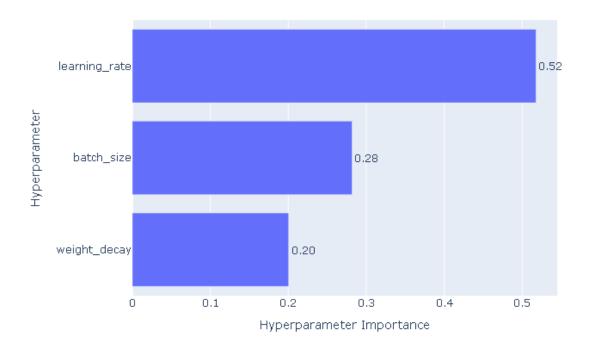


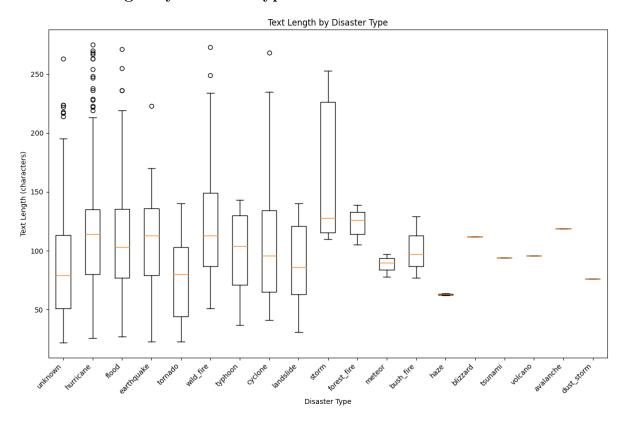


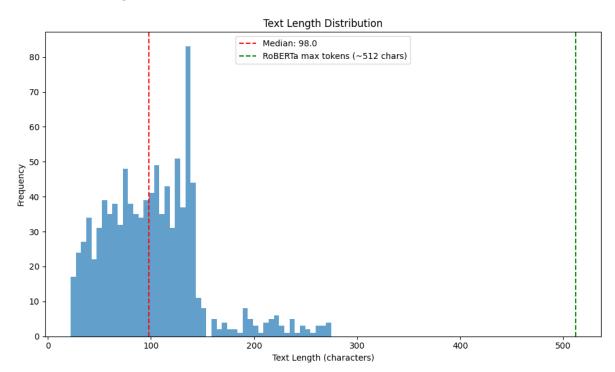


3 Output (ALBERT)

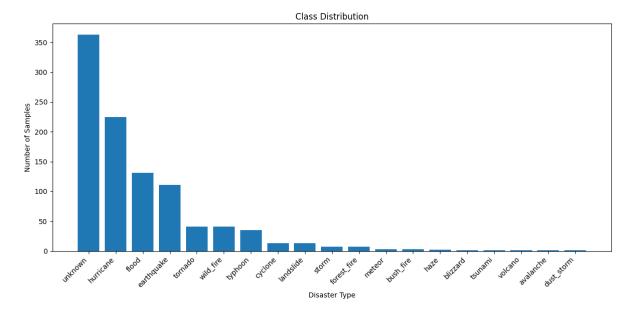
3.1 Hyperparameter Importances

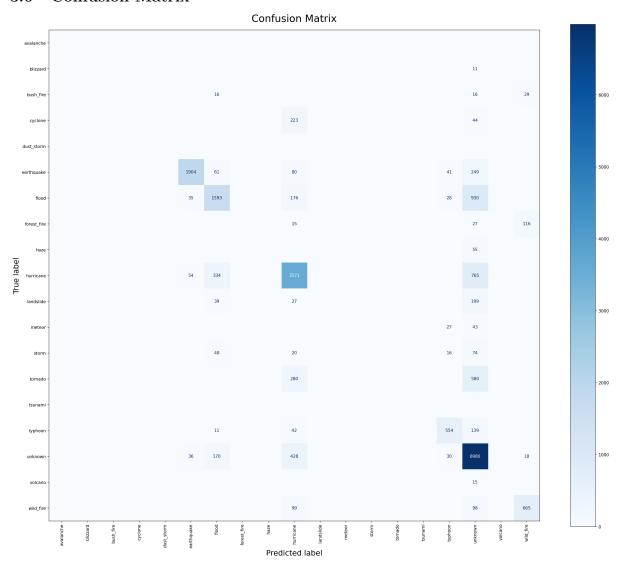


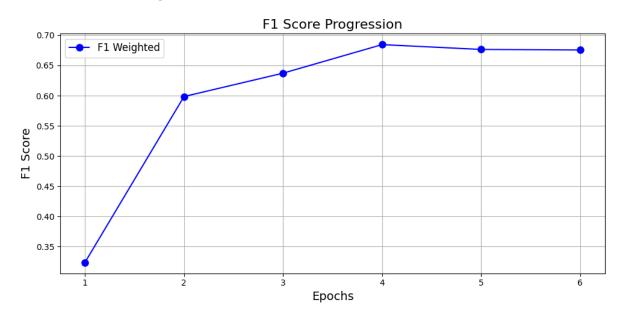


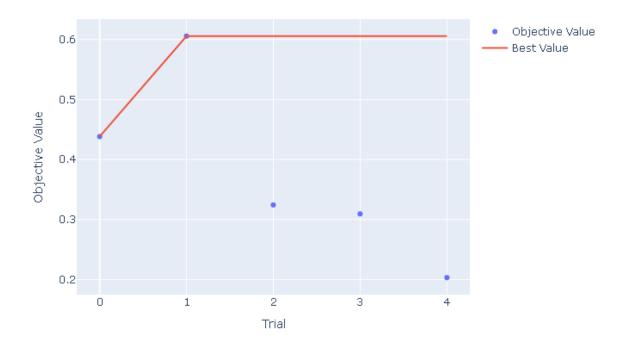






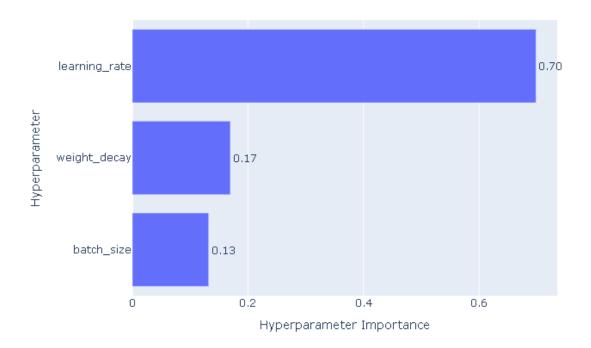


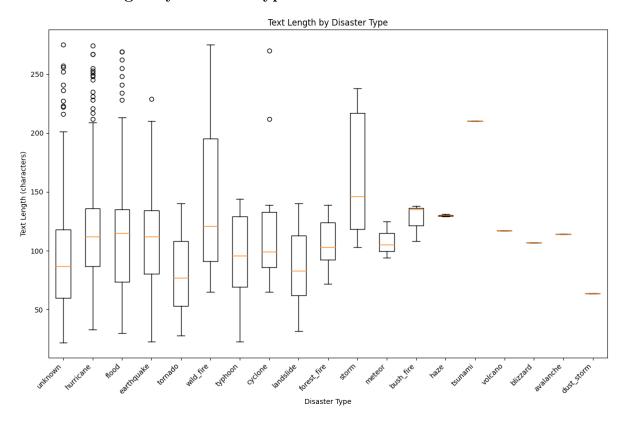


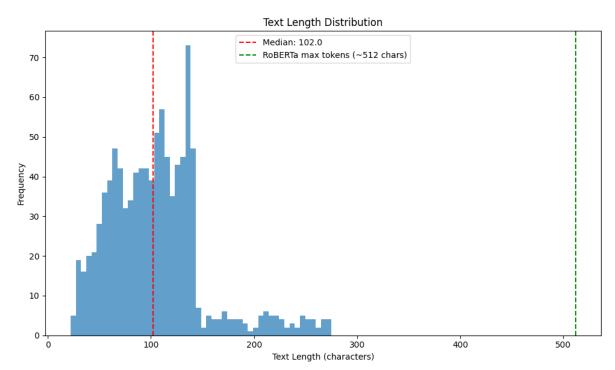


4 Output (BertBase)

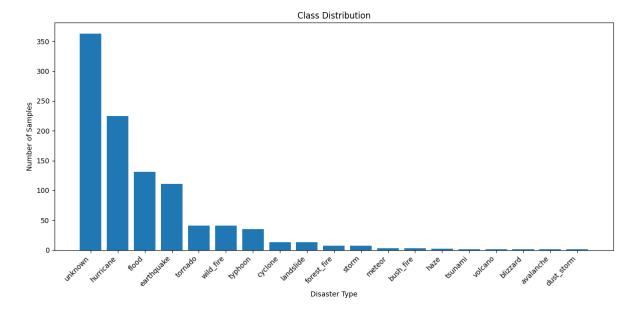
4.1 Hyperparameter Importances

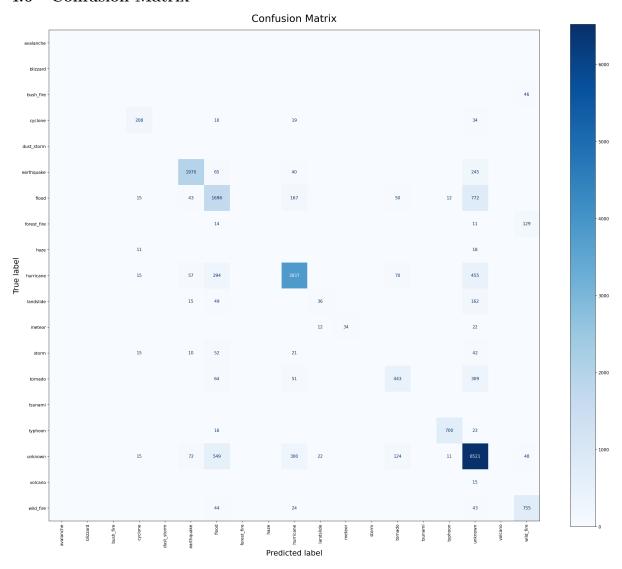


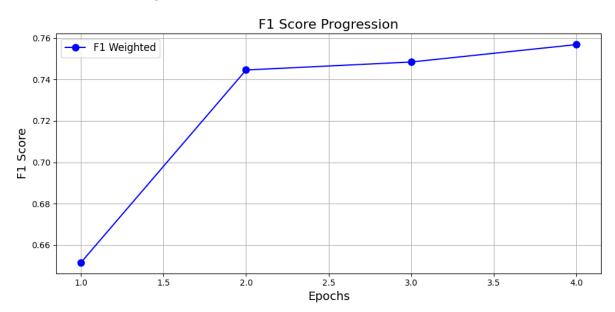


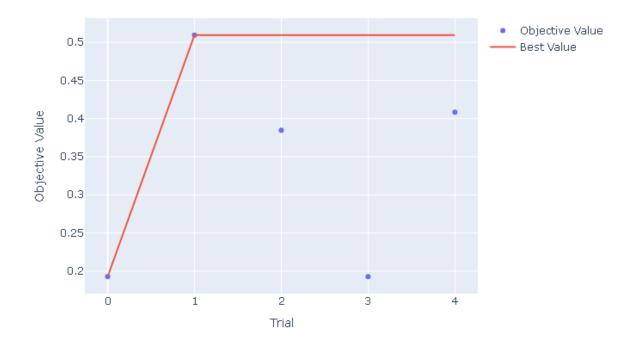






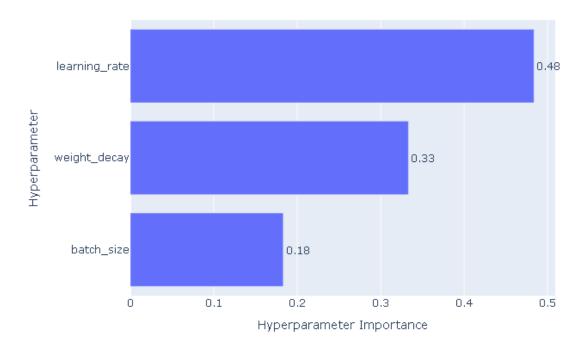


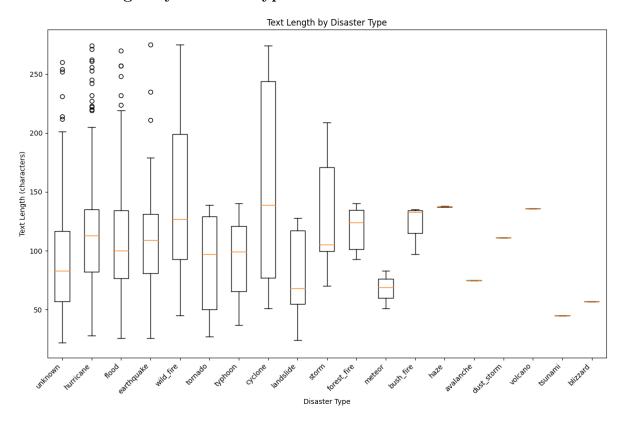


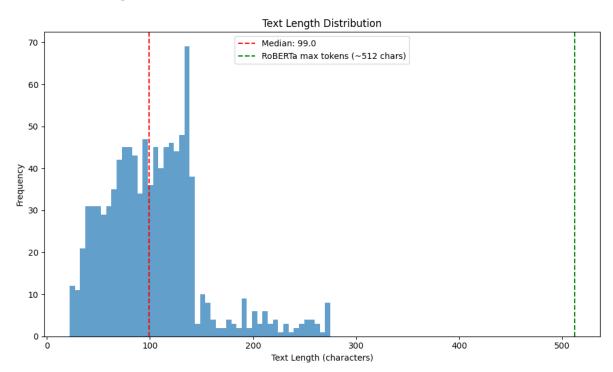


5 Output (distilBERT)

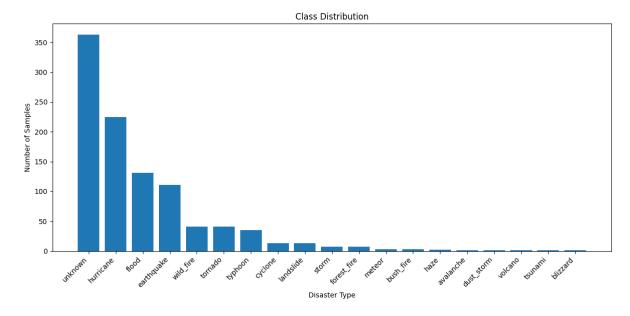
5.1 Hyperparameter Importances

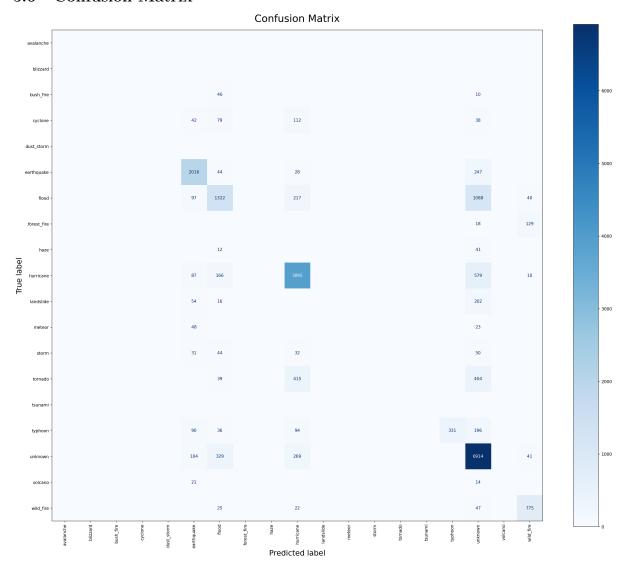


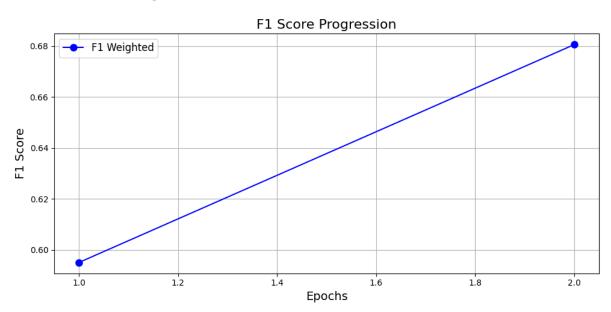


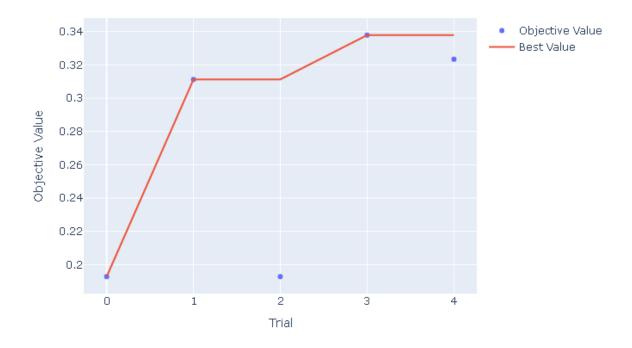






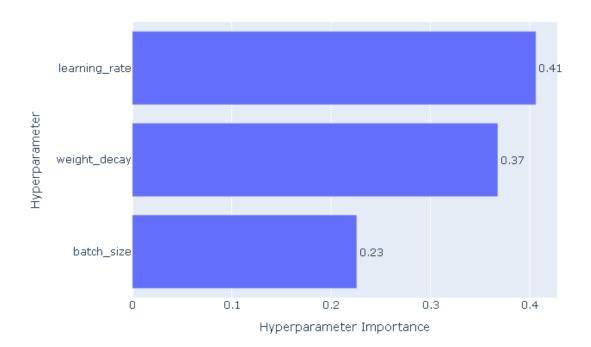


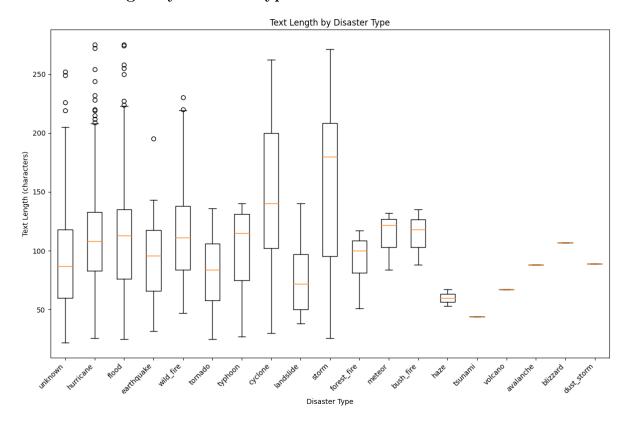


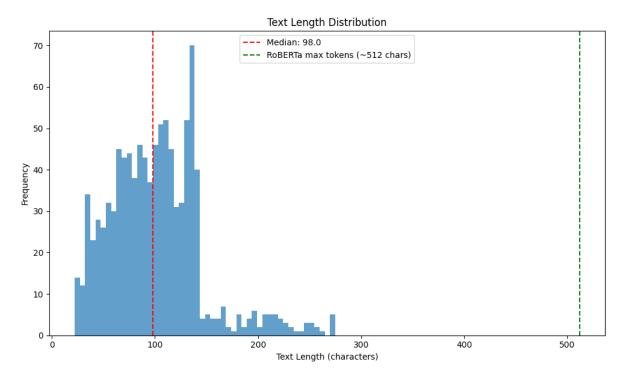


6 Output (ELECTRA)

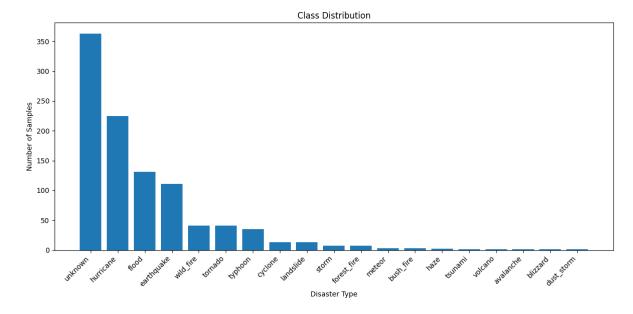
6.1 Hyperparameter Importances

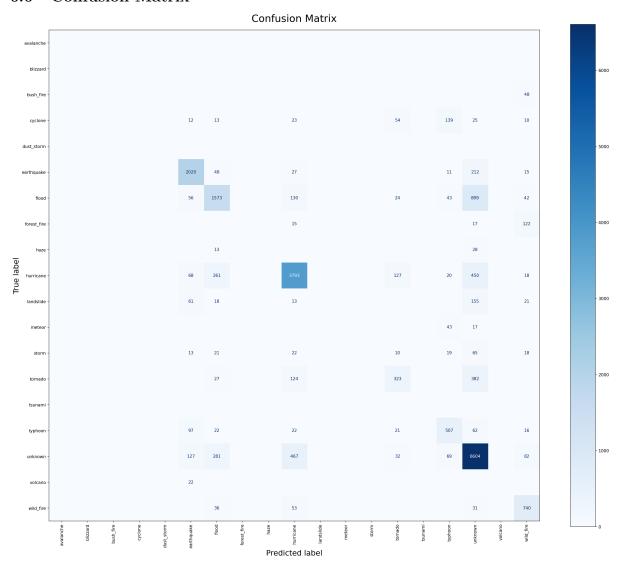


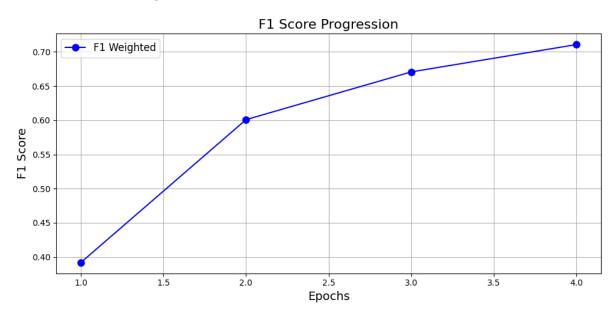


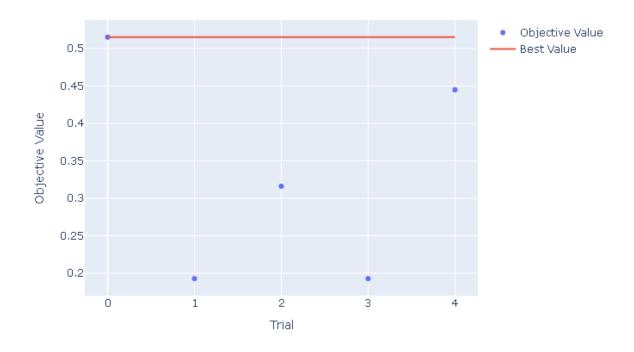












7 Output (XLNET)

7.1 Hyperparameter Importances

