

The evaluation results provided here only contain these metrics - accuracy and recall, as our best models were selected based on these 2 metrics. The detailed evaluations will be included in the final report

Model	Results													
	New data - rating		New data - sentiment		Old data - rating		Old data - sentiment			New data - only text		Old data - only text		
	Accuracy	Recall	Accuracy	Recall	Accuracy	Recall	Accuracy	Recall		Accuracy	Recall	Accuracy	Recall	
Logistic Regression	77.0	80.7	77.1	80.9	92.1	92.5	92.1	92.5		76.4	80.6	91.6	91.8	
K-nearest neighbors	51.9	46.3	54.4	49.6	76.5	87.7	77.6	90.0		52.0	74.5	72.8	54.4	
Support Vector Classifier	71.0	76.0	71.2	76.4	88.6	89.7	88.7	89.8		71.2	76.8	87.9	88.2	
Naive Bayes	73.0	76.3	73.1	76.3	86.8	87.0	87.1	87.4		74.1	76.2	86.9	86.2	
Decision Tree	63.3	70.8	63.8	80.1	80.1	74.6	80.8	74.7		63.0	83.6	77.9	69.6	
Random Forests	67.2	83.2	67.8	75.0	86.4	85.7	86.4	85.6		67.3	85.1	86.0	84.1	
AdaBoost	71.7	81.0	71.7	81.0	85.9	84.8	85.9	84.8		71.7	81.0	85.6	83.7	
XGBoost	73.8	79.2	74.2	80.0	91.1	90.6	91.2	90.2		73.4	79.0	90.0	89.5	
CNN + Attention	75.7	73.5	75.9	83.6	95.4	94.9	94.7	95.5		51.2	0.1	94.5	92.4	
BERT	65.8	63.2	65.8	67.4	89.8	87.8	89.4	91.8		66.0	68.4	88.4	84.7	
CNN	67.6	68.0	66.0	66.1	93.2	93.2	93.2	93.2		71.4	63.7	95.3	95.4	
BiLSTM	73.1	81.2	74.0	76.7	93.3	93.1	93.3	93.0		73.1	80.3	93.4	92.8	