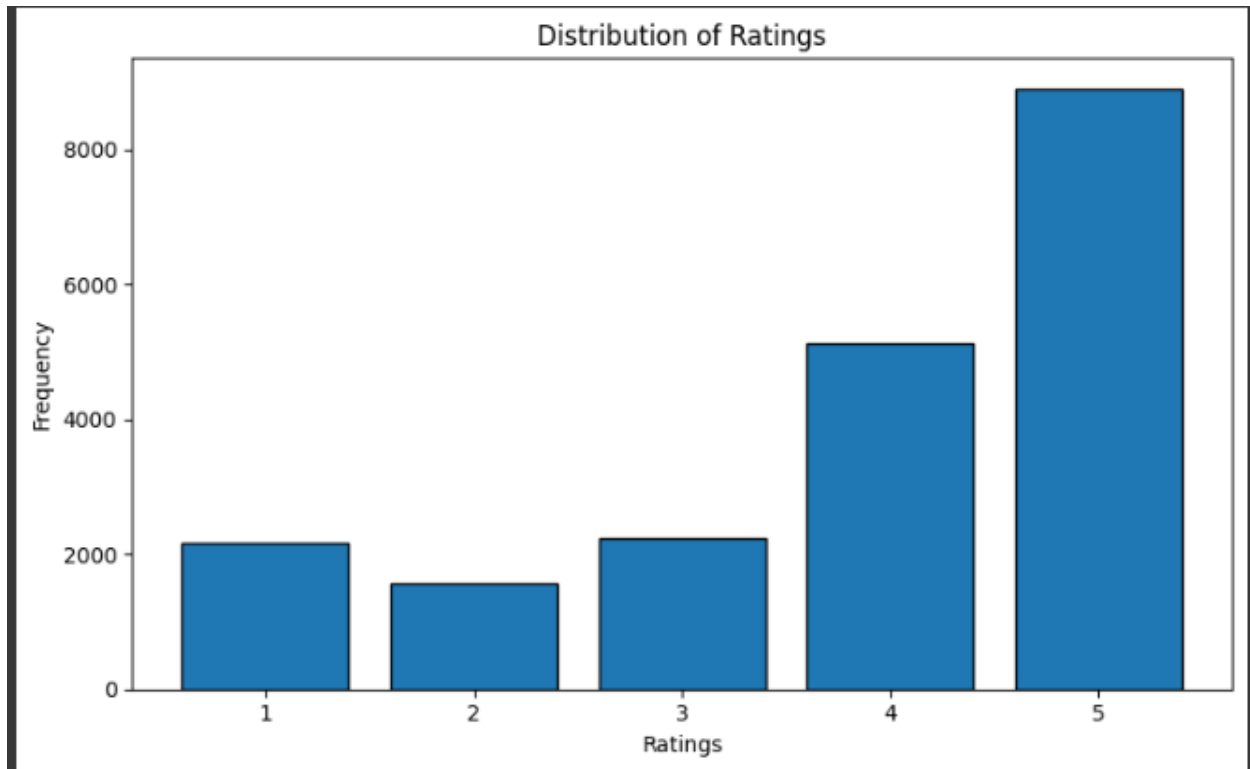


Result:

Data Visualization:



Performance metrics:

Accuracy Table:

	logistic_regression	svm	mlp	cnn	gradient_boosting	\
Word2Vec	0.439	0.397	0.457	0.325		0.421
BERT	0.54	0.573	0.514	0.444		0.476
T5	0.522	0.389	0.551	0.21		0.436

random_forest

Word2Vec	0.38
BERT	0.461
T5	0.424

Accuracy table saved to results/accuracy_table.csv

F1 Table:

	logistic_regression	svm	mlp	cnn	gradient_boosting	\
Word2Vec	0.429747	0.392845	0.432939	0.298865		0.411955
BERT	0.535872	0.568776	0.512571	0.425273		0.469128
T5	0.518472	0.336222	0.553231	0.124439		0.429713

random_forest

Word2Vec	0.363897
BERT	0.428514
T5	0.376518

F1 table saved to results/f1_table.csv

Precision Table:

	logistic_regression	svm	mlp	cnn	gradient_boosting	\
Word2Vec	0.43336	0.405978	0.437996	0.325619		0.411511
BERT	0.534613	0.572648	0.518605	0.447531		0.46678
T5	0.524797	0.393483	0.565942	0.217282		0.430435

random_forest

Word2Vec	0.373708
BERT	0.460498
T5	0.409156

Precision table saved to results/precision_table.csv

Recall Table:

	logistic_regression	svm	mlp	cnn	gradient_boosting	\
Word2Vec	0.439	0.397	0.457	0.325		0.421
BERT	0.54	0.573	0.514	0.444		0.476
T5	0.522	0.389	0.551	0.21		0.436

random_forest