

Social Computing Assignment 2:

Aspect based Sentiment Classification from Reviews on Social Media Sites

Student Details

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Dataset Analysis

Train data count: 4840

Test data count: 1211

Objective 1

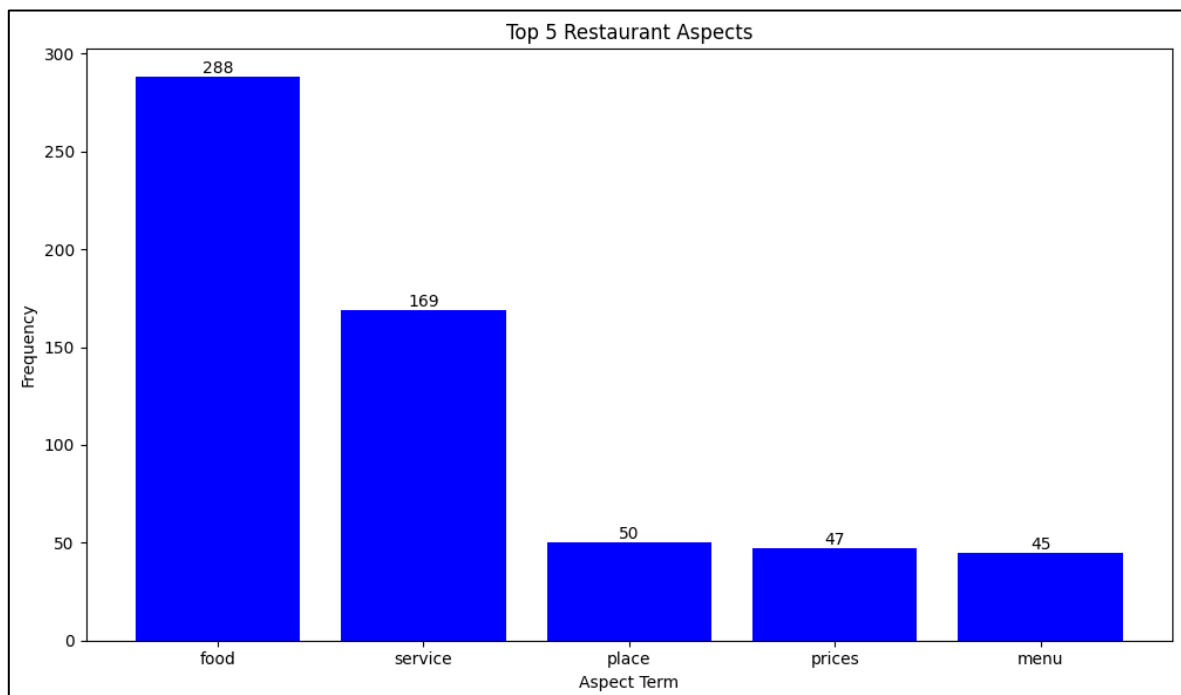


Figure 1: Aspect Term vs Frequency [for *Restaurant*]

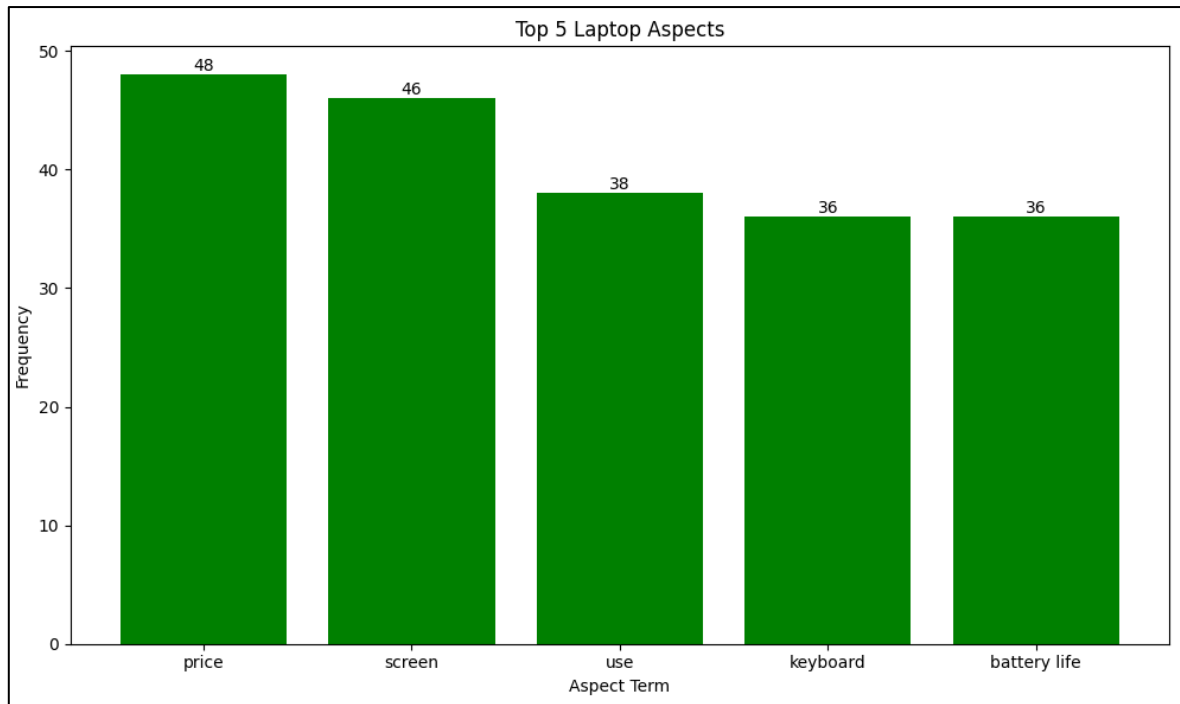


Figure 2: Aspect Term vs Frequency [for Laptop]

Objective 2

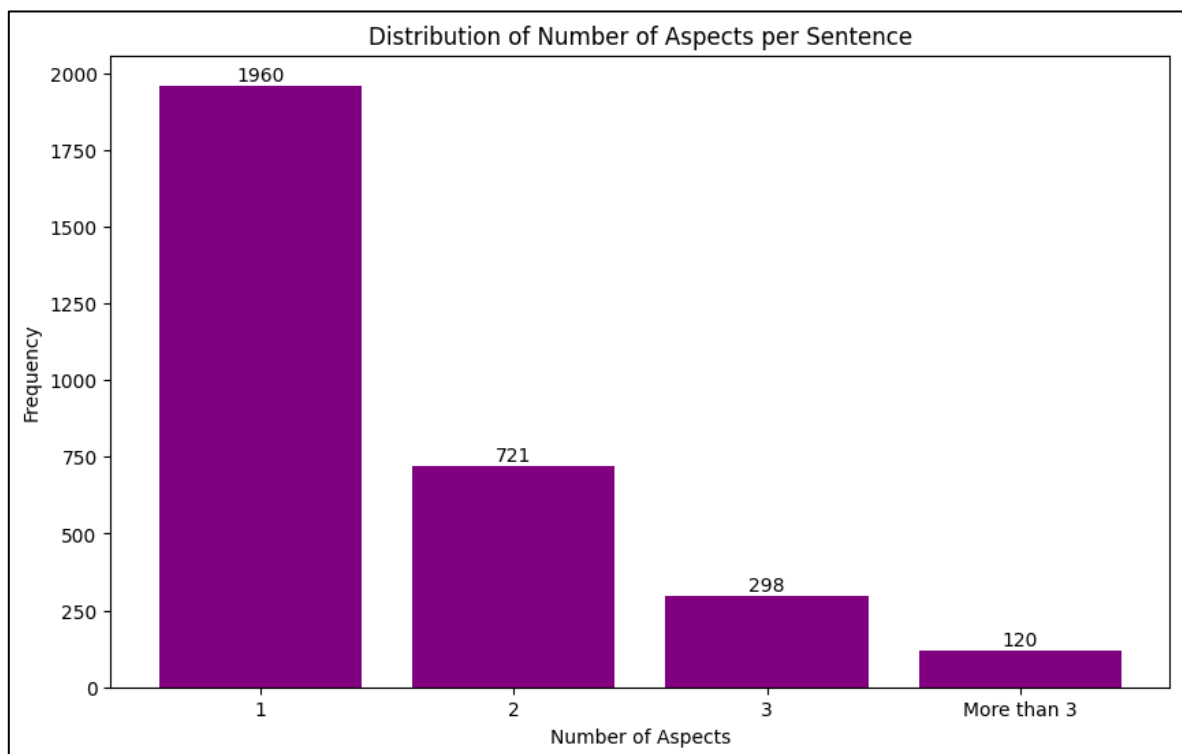


Figure 3: No. of aspects per Sentence vs Frequency

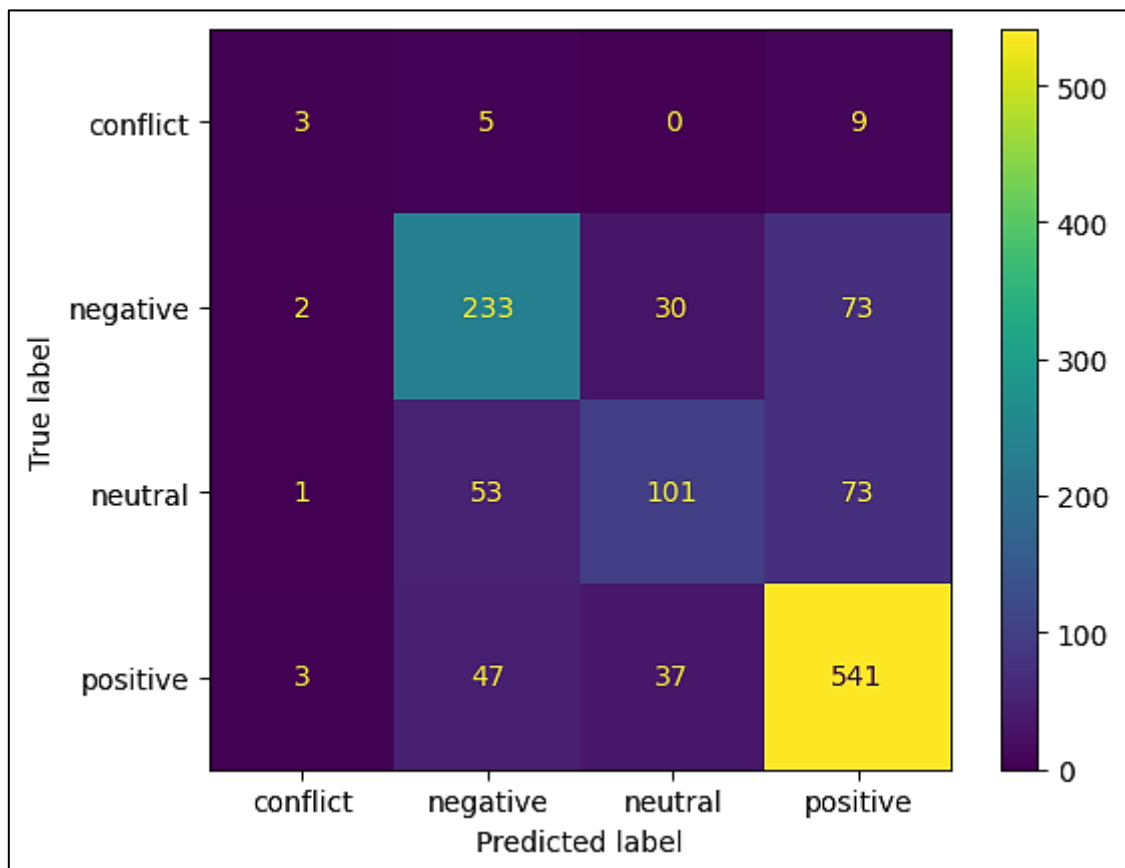
Results and Analysis

Part B (1)

Evaluation Metrics:

Label	Precision	Recall	F1-Score	Support
Conflict	0.33333	0.17647	0.23077	17
Negative	0.68935	0.68935	0.68935	338
Neutral	0.60119	0.44298	0.51010	228
Positive	0.77730	0.86146	0.81722	628
Accuracy	0.72502			1211
Macro Avg	0.60029	0.54257	0.56186	1211
Weighted Avg	0.71336	0.72502	0.71548	1211

Confusion Matrix



Part B (2)

Evaluation Metrics:

Label	Precision	Recall	F1-Score	Support
Conflict	0.00000	0.00000	0.00000	17
Negative	0.65043	0.67160	0.66084	338
Neutral	0.57037	0.33772	0.42424	228
Positive	0.75928	0.87898	0.81476	628
Accuracy	0.70685			1211
Macro Avg	0.49502	0.47207	0.47496	1211
Weighted Avg	0.68268	0.70685	0.68684	1211

Confusion Matrix

