Enhanced Hospital Review Analysis Dashboard

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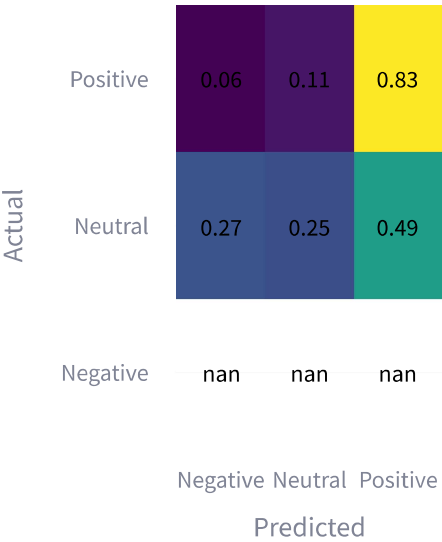
Browse files

📄 dataset_v2.csv 8.1MB   ✕
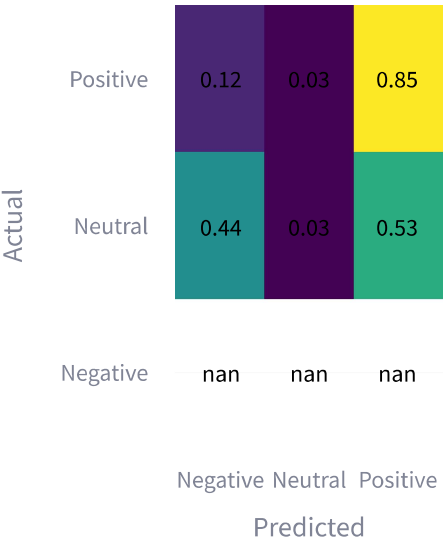
Confusion Matrix Analysis

These confusion matrices show how well each model's sentiment predictions align with the categorized actual ratings. The values show the proportion of each actual category that was predicted as each sentiment category.
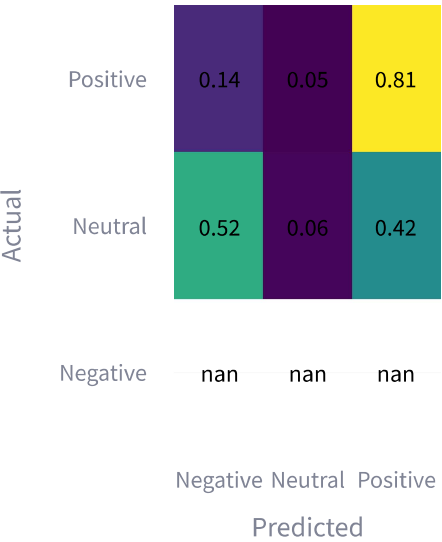
TEXTBLOB Confusion Matrix

Actual	Negative	Neutral	Positive
Positive	0.06	0.11	0.83
Neutral	0.27	0.25	0.49
Negative	nan	nan	nan

Predicted

VADER Confusion Matrix

Actual	Negative	Neutral	Positive
Positive	0.12	0.03	0.85
Neutral	0.44	0.03	0.53
Negative	nan	nan	nan

Predicted

BERT Confusion Matrix

Actual	Negative	Neutral	Positive
Positive	0.14	0.05	0.81
Neutral	0.52	0.06	0.42
Negative	nan	nan	nan

Predicted

Model Performance Summary

	Model	Overall Accuracy
0	textblob	nan%
1	vader	nan%
2	bert	nan%

Model Accuracy Analysis

Accuracy Metrics Comparison

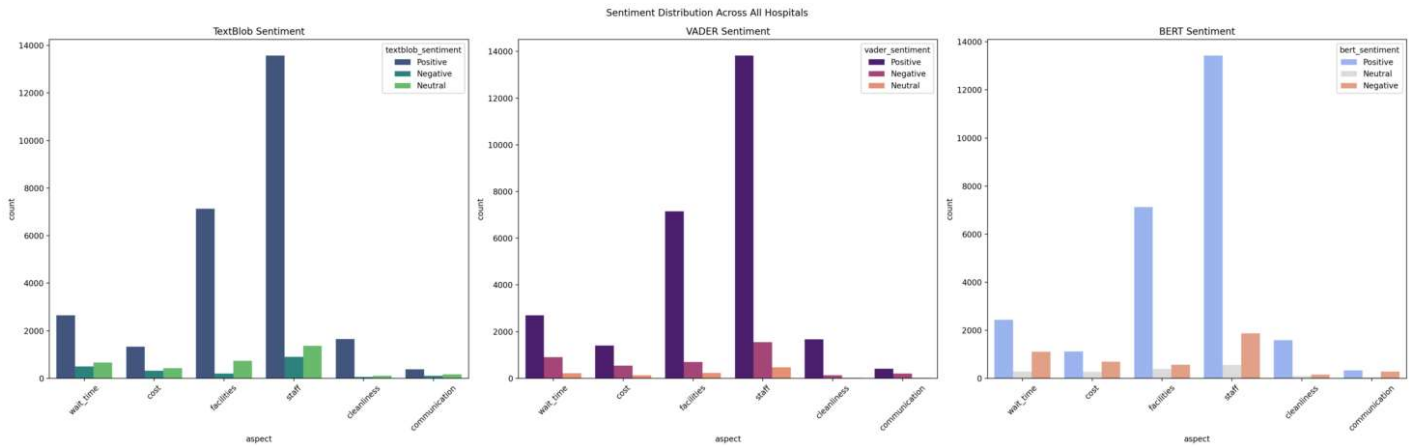|	Mean Squared Error	Accuracy (±1 point)	Correlation
textblob	1.763	47.8%	0.272
vader	1.993	72.9%	0.284
bert	1.711	78.9%	0.348
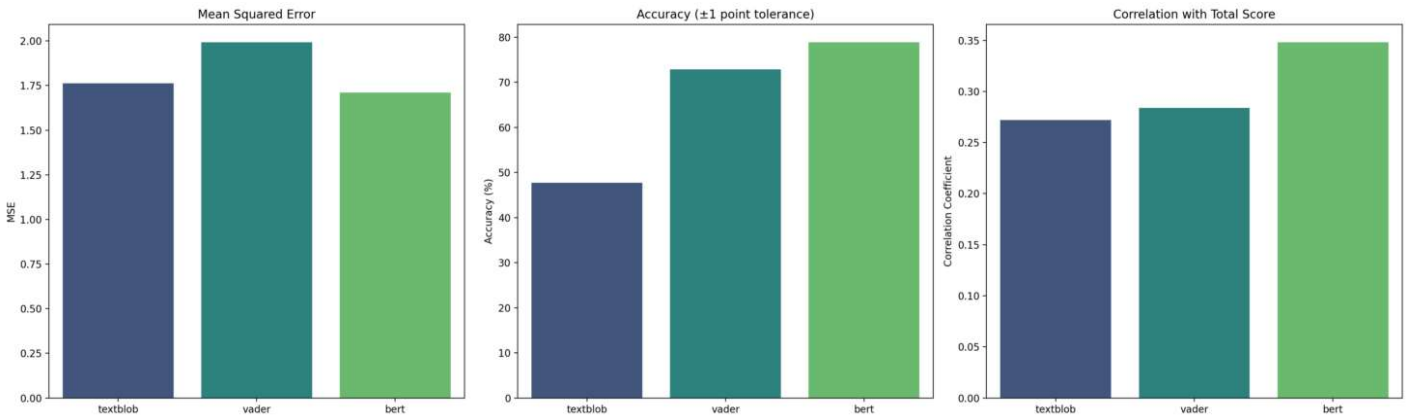
Predicted vs Actual Scores
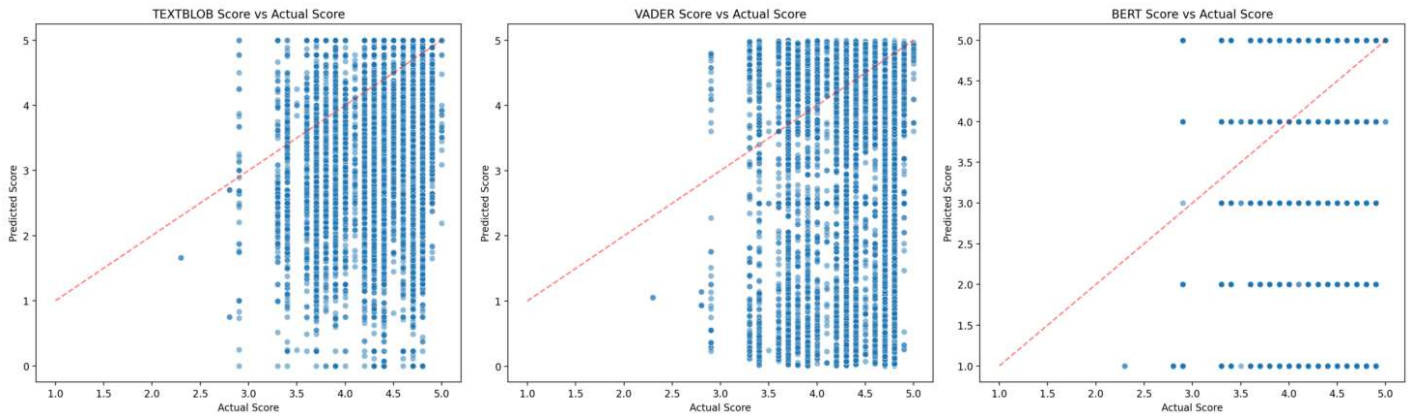
Sentiment Analysis

Overall Sentiment Distribution by Aspect

Aspect-Specific Analysis

Select aspect

| cleanliness ⌄ |

Sort by

| Positive Sentiment % ⌄ |

Detailed Metrics by Hospital and Aspect

|	hospital	aspect	mentions	positive_po
108	Ankura Hospital for Women & Children - Bhubaneswar	staff	224	99.1%
24	SUM Ultimate Medicare - Best Multispeciality Hospital in Bhubaneswar	cleanliness	601	97.8%
333	CENTRE FOR SIGHT GROUP OF EYE HOSPITALS | BHUBANESHWAR | ODIS	staff	371	96.8%
323	Urban CHC Unit-4	cleanliness	29	96.6%
72	Aditya Ashwini Hospital	staff	245	96.3%
109	Ankura Hospital for Women & Children - Bhubaneswar	wait_time	21	95.2%
86	KIDS Hospital	cleanliness	17	94.1%
25	SUM Ultimate Medicare - Best Multispeciality Hospital in Bhubaneswar	staff	3,144	93.7%
338	CENTRE FOR SIGHT GROUP OF EYE HOSPITALS | BHUBANESHWAR | ODIS	facilities	15	93.3%
207	AMRI Hospitals - Information Centre & Superspecialty Clinic	staff	14	92.9%

Hospital-Specific Analysis

Select a hospital

Sunshine Hospital ⌄

Sentiment Distribution for Sunshine Hospital
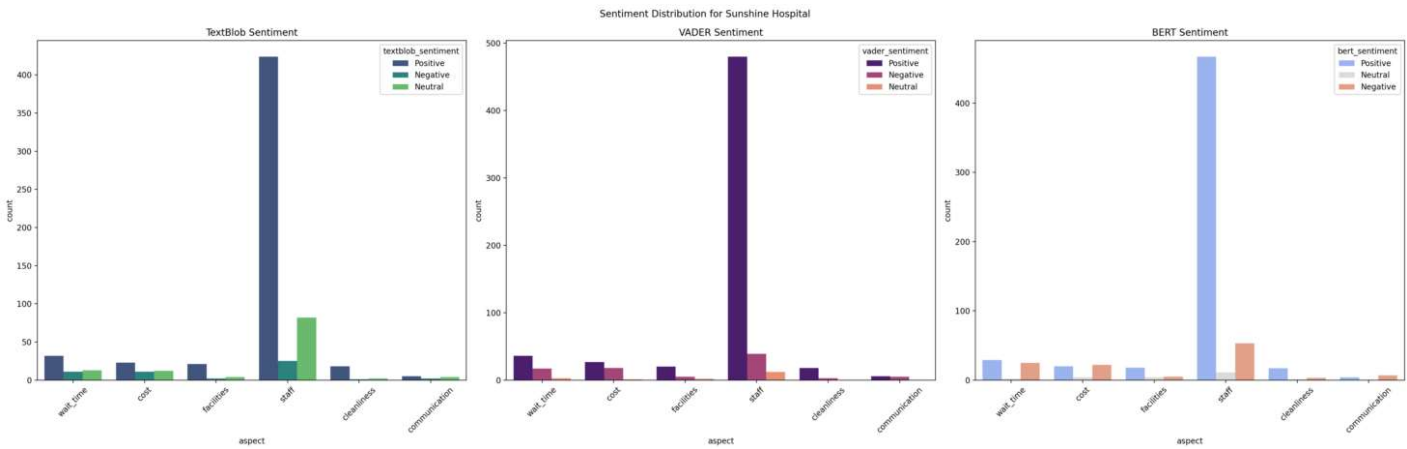
Model Performance Comparison

	Mean Squared Error	Accuracy (±1 point)	Correlation
textblob	2.062	55.1%	0.000
vader	2.106	80.9%	-0.000
bert	2.218	80.2%	0.000

Summary Statistics

	Metric	Value
0	Total Reviews	692
1	Average Rating	4.60
2	Most Mentioned Aspect	staff
3	Best Performing Model	TEXTBLOB