Strategy Evaluation Results

Summary

Total Strategy Combinations	4
Total Test Cases	10000
Timestamp	2026-01-29 10:54:45

Strategy Performance

RULE_BASED NLP + DIJKSTRA Path Finder

Accuracy	60.32% (6032/10000)
Avg Execution Time	0.10 ms
Min Execution Time	0.06 ms
Max Execution Time	1.57 ms

RULE_BASED NLP + DIJKSTRA_TEST Path Finder

Accuracy	60.32% (6032/10000)
Avg Execution Time	0.10 ms
Min Execution Time	0.06 ms
Max Execution Time	0.50 ms

RULE_TEST NLP + DIJKSTRA Path Finder

Accuracy	60.32% (6032/10000)
Avg Execution Time	0.10 ms

Min Execution Time	0.06 ms
Max Execution Time	0.44 ms

RULE_TEST NLP + DIJKSTRA_TEST Path Finder

Accuracy	60.32% (6032/10000)
Avg Execution Time	0.10 ms
Min Execution Time	0.06 ms
Max Execution Time	0.49 ms

NLP Results

The NLP component extracts departure and arrival stations from user input.

Total Inputs Processed	20000
Successfully Extracted	8438
Extraction Errors	11562
Avg Extraction Time	0.08 ms

Path Finder Results

The path finder computes the shortest route between two stations.

Total Paths Computed	8438
Avg Path Computation Time	0.05 ms
Avg Path Length	3.28 stations

Pipeline Results

End-to-end pipeline performance combining NLP and path finding.

Total Pipeline Executions	40000
Avg Total Time	0.10 ms
Min Total Time	0.06 ms
Max Total Time	1.57 ms