

Statistical Benchmark Report

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This report provides quantitative evaluation results for NDCG@k and Faithfulness, correlation diagnostics, outlier detection, and statistical visualizations.

1. Summary Statistics

files	10.0000
ndcg@k mean	0.9997
ndcg@k ci95 lo	0.9992
ndcg@k ci95 hi	1.0000
faith mean	0.9899
faith ci95 lo	0.9757
faith ci95 hi	1.0000
ndcg@k median	1.0000
faith median	1.0000
ndcg@k std	0.0006
faith std	0.0205
bootstrap iters	2000.0000
iqr k	1.5000
z thresh	3.0000
faith high thr	0.8000
faith mid thr	0.5000

2. Correlation and Outlier Analysis

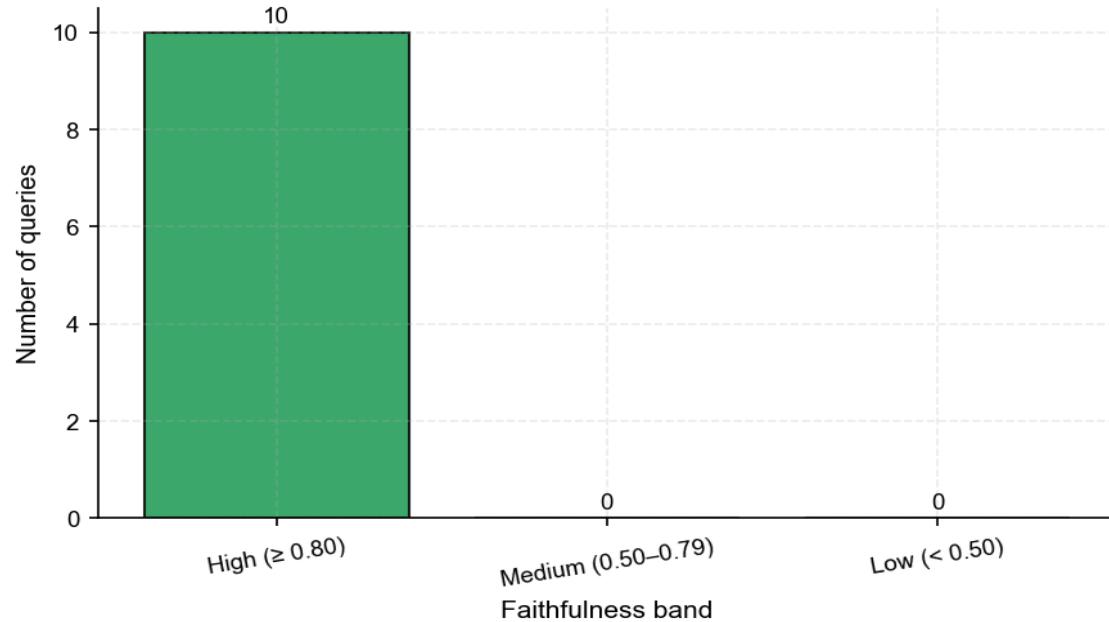
Metric Pair	Correlation	p-value
Pearson r	0.685	2.870e-02
Spearman ρ	0.500	1.411e-01

No outliers detected.

3. Visual Analytics

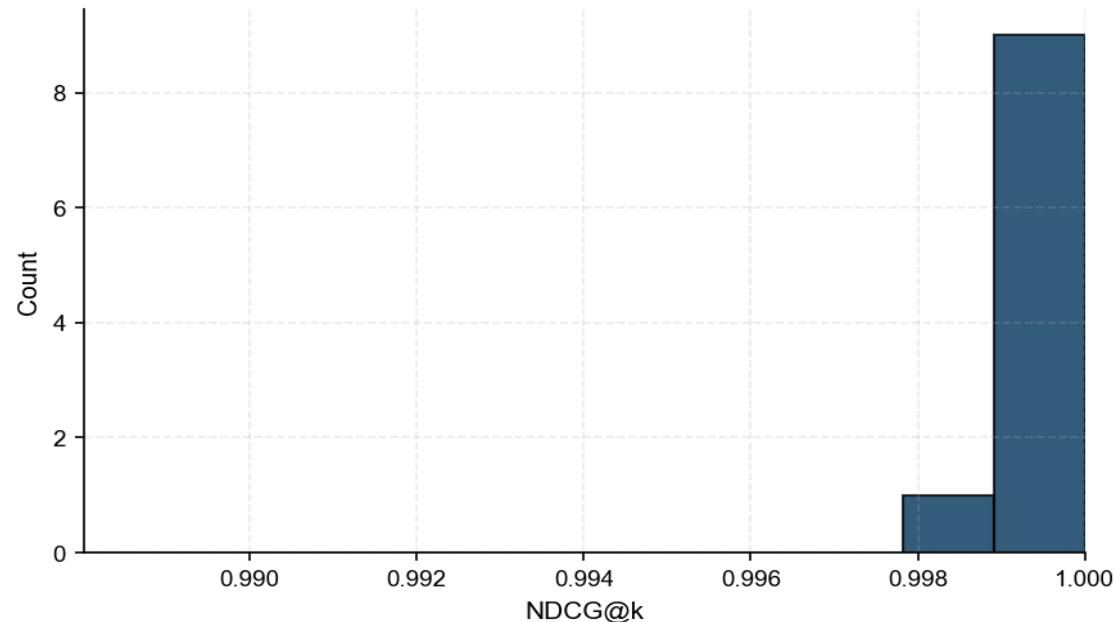
faithfulness bands global.png

Figure 2: Faithfulness bands across all queries



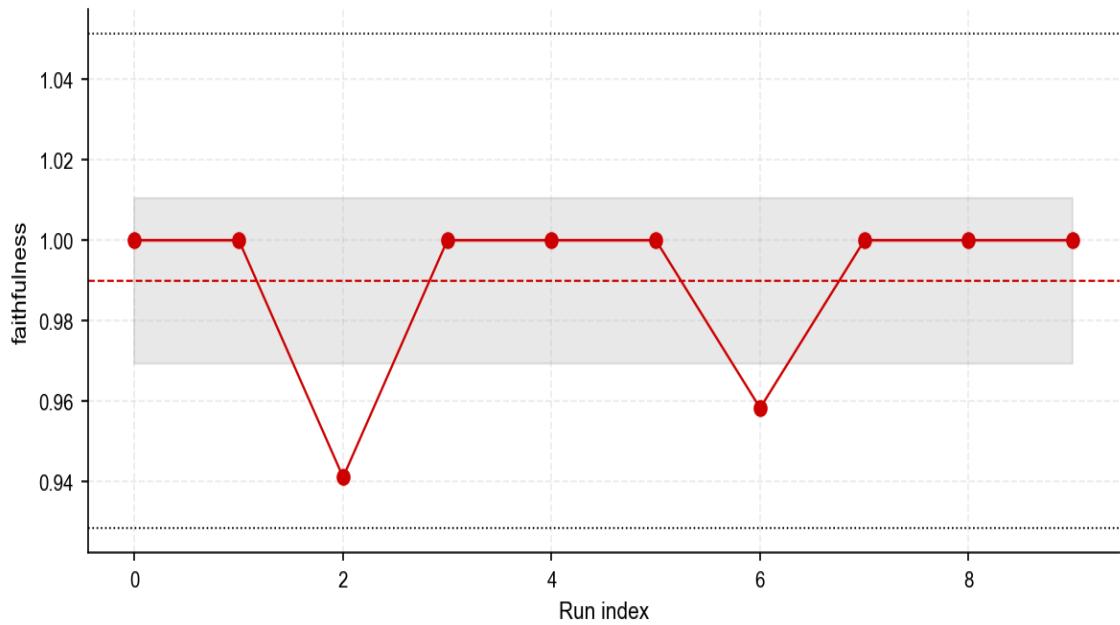
hist ndcg.png

Figure 1: Distribution of NDCG@k



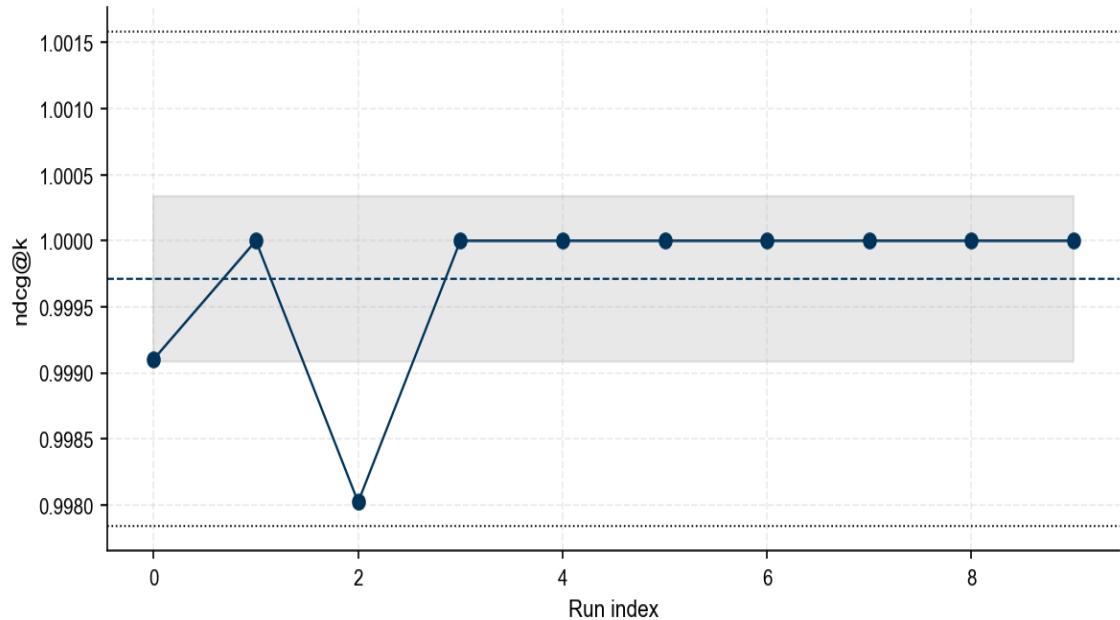
run order faithfulness.png

Figure 5: Run-order chart for faithfulness



run order ndcg@k.png

Figure 4: Run-order chart for ndcg@k



scatter ndcg vs faithfulness.png

Figure 3: Scatter NDCG@k vs Faithfulness ($r=0.685$, $p=0.500$)

