

# 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	1.0000
ndcg@k ci95 lo	1.0000
ndcg@k ci95 hi	1.0000
faith mean	0.5899
faith ci95 lo	0.5151
faith ci95 hi	0.6599
ndcg@k median	1.0000
faith median	0.5899
ndcg@k std	0.0000
faith std	0.1242
bootstrap iters	2000.0000
iqr k	1.5000
z thresh	3.0000
faith high thr	0.7000
faith mid thr	0.4000

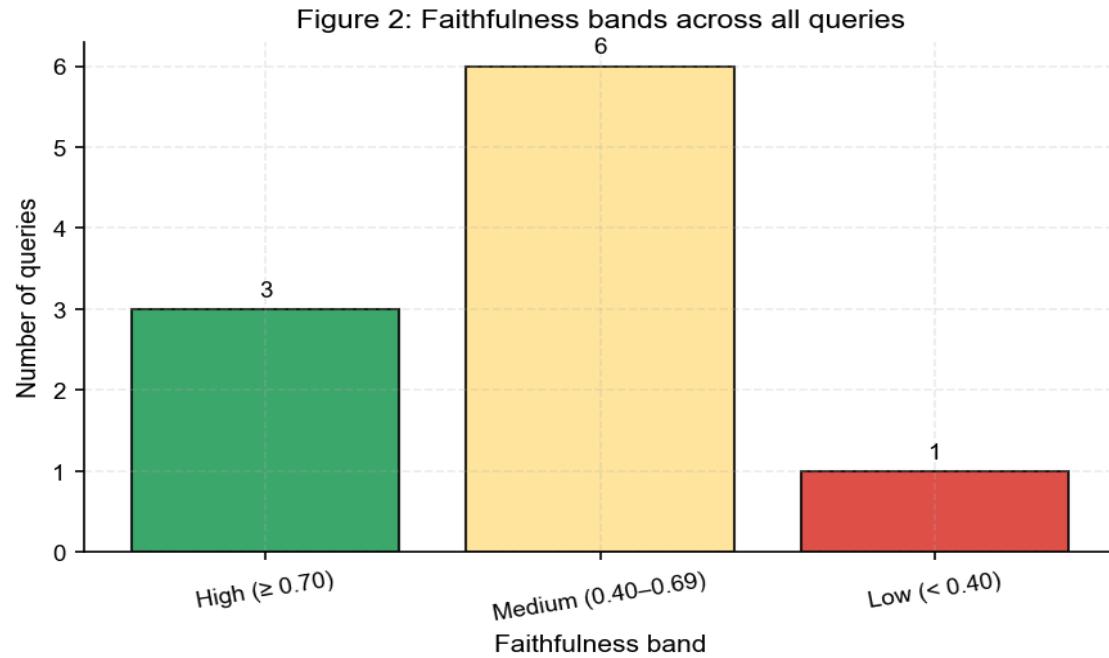
## 2. Correlation and Outlier Analysis

Metric Pair	Correlation	p-value
Pearson r	nan	nan
Spearman $\rho$	nan	nan

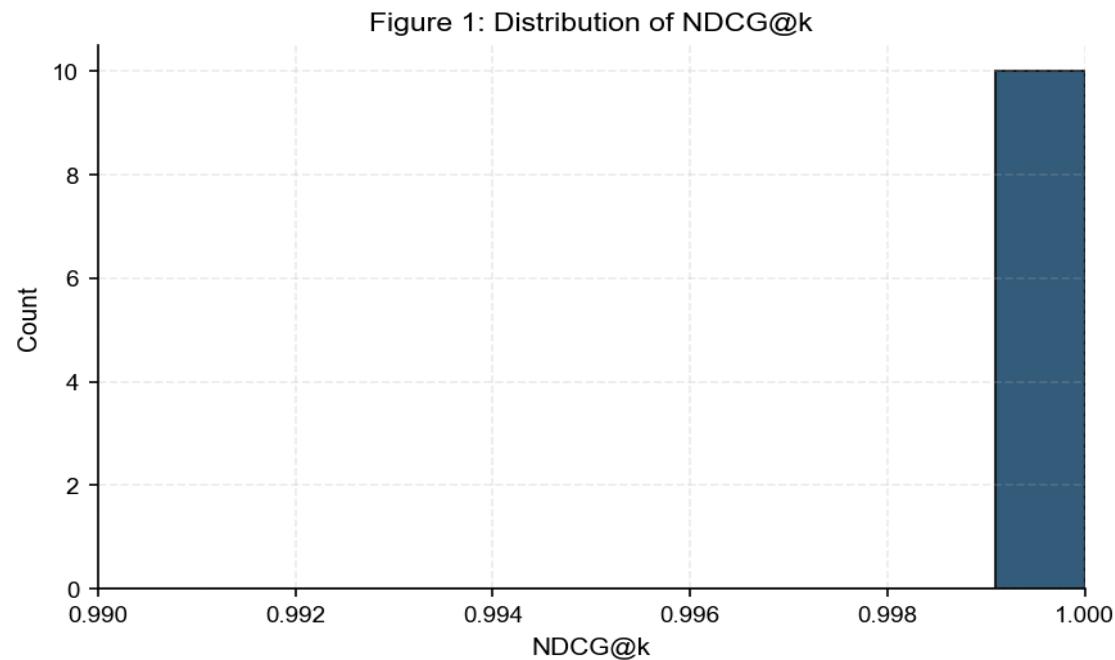
No outliers detected.

### 3. Visual Analytics

**faithfulness bands global.png**

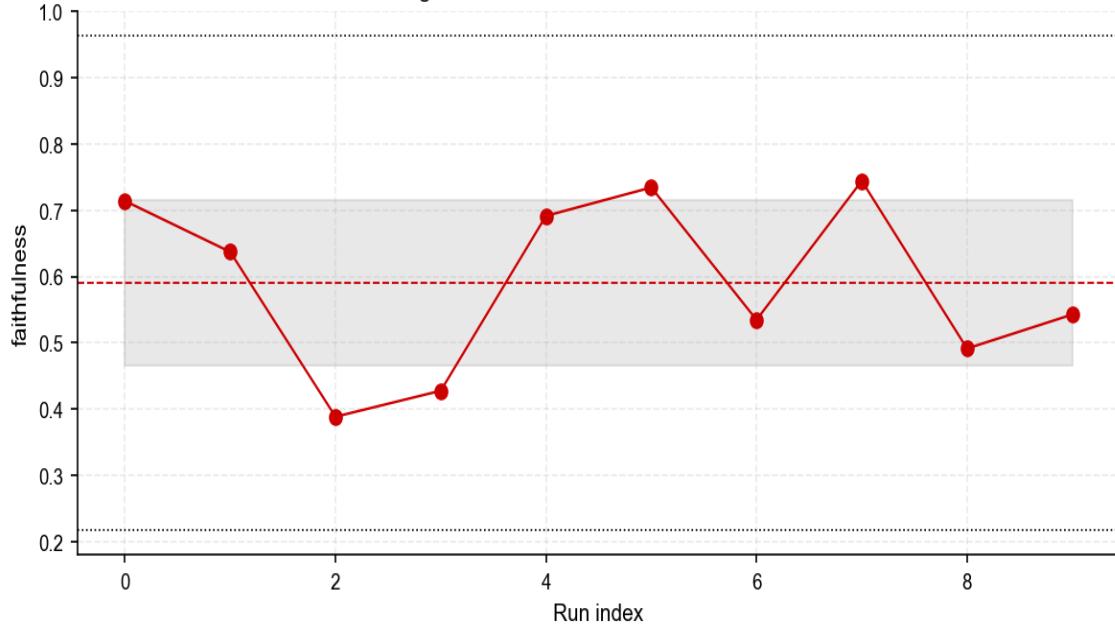


**hist ndcg.png**



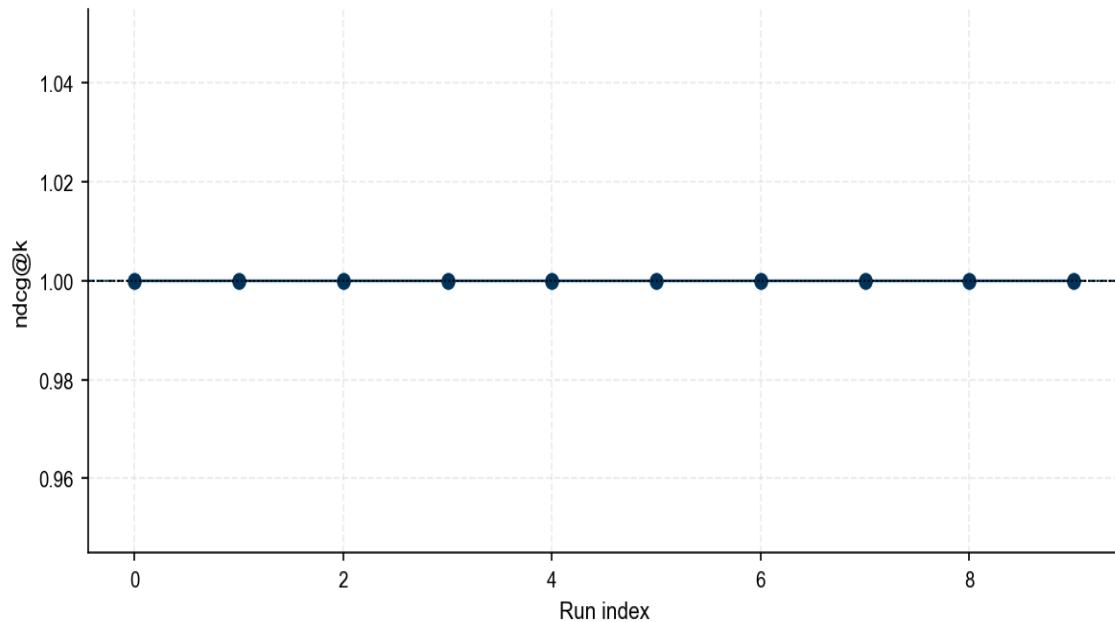
**run order faithfulness.png**

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 ( $r=nan$ ,  $p=nan$ )

