

RAG Evaluation Report

Overall Performance Summary

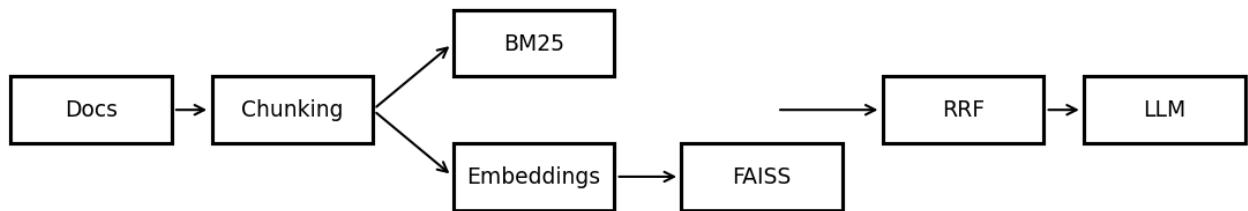
mrr_url: 0.9683
precision_at_5_url: 0.2280
answer_f1: 0.0517
contextual_precision: 0.9853
distinct_1: 0.5829
avg_latency: 2.0042

Custom Metrics Justification

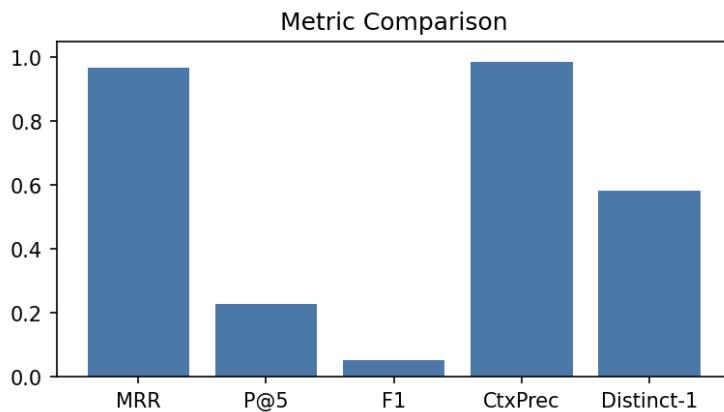
Answer F1: precision/recall overlap; $F1 = 2PR/(P+R)$.

Contextual Precision: $|\text{answer tokens} \cap \text{context tokens}| / |\text{answer tokens}|$.

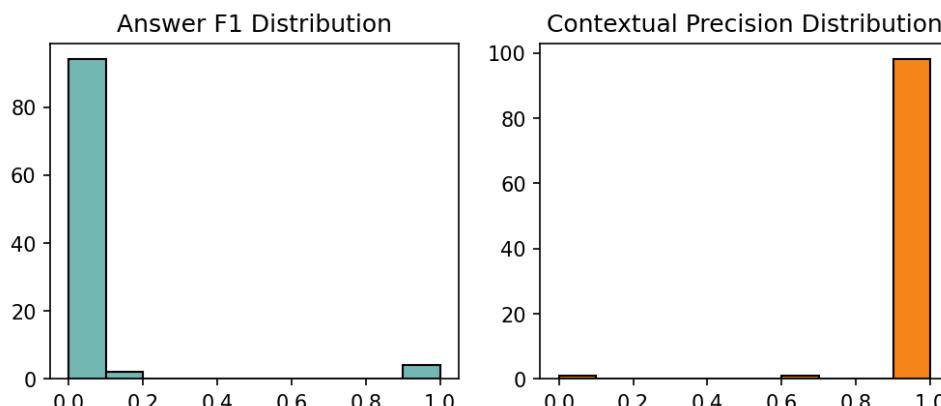
Architecture Diagram



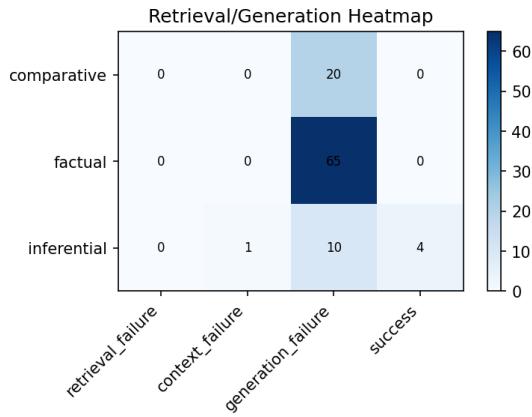
Metric Comparison



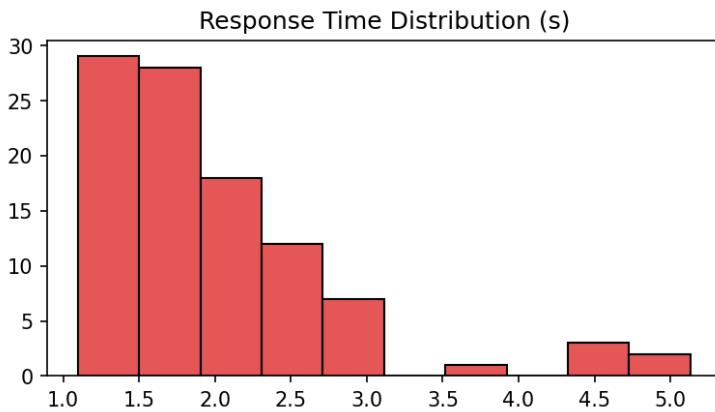
Score Distributions



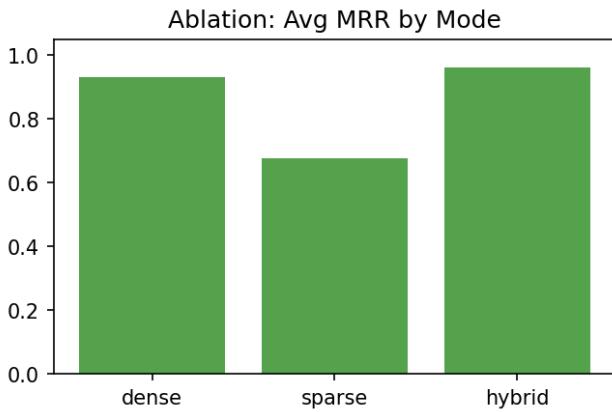
Retrieval Heatmap



Response Times



Ablation Plot



Adversarial Testing

paraphrase_hit_rate: 0.9500
 unanswerable_hallucination_rate: 0.0000

Error Analysis (by category)

factual: {'generation_failure': 65}
 comparative: {'generation_failure': 20}
 inferential: {'generation_failure': 10, 'success': 4, 'context_failure': 1}

Pattern: Most failures by category: factual (65).

Results Table (first 10, includes MRR contribution)

- 1: MRR=1.00 F1=0.00 Ctx=0.93 T=4.58s
- 2: MRR=1.00 F1=0.03 Ctx=1.00 T=2.62s
- 3: MRR=1.00 F1=0.00 Ctx=1.00 T=2.79s
- 4: MRR=1.00 F1=0.00 Ctx=1.00 T=1.97s
- 5: MRR=1.00 F1=0.00 Ctx=1.00 T=1.38s
- 6: MRR=1.00 F1=0.00 Ctx=1.00 T=1.32s
- 7: MRR=1.00 F1=0.00 Ctx=1.00 T=2.67s
- 8: MRR=1.00 F1=0.02 Ctx=1.00 T=2.69s
- 9: MRR=1.00 F1=0.00 Ctx=1.00 T=2.25s
- 10: MRR=1.00 F1=0.00 Ctx=1.00 T=2.27s

Screenshots

Screenshot Placeholder 1

Screenshot Placeholder 2

Screenshot Placeholder 3