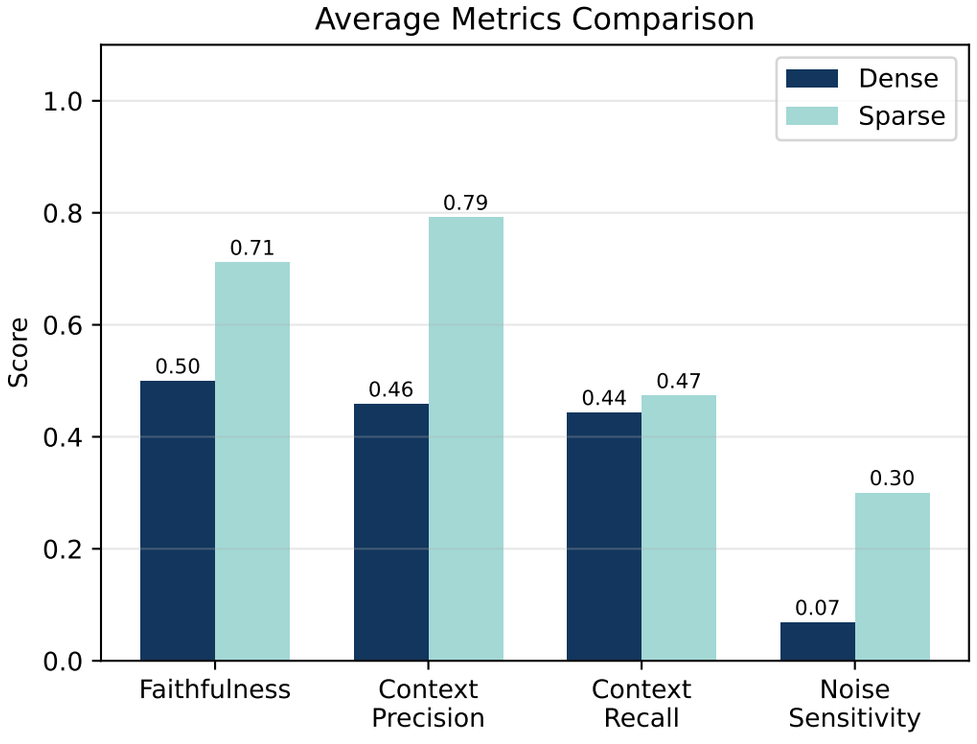
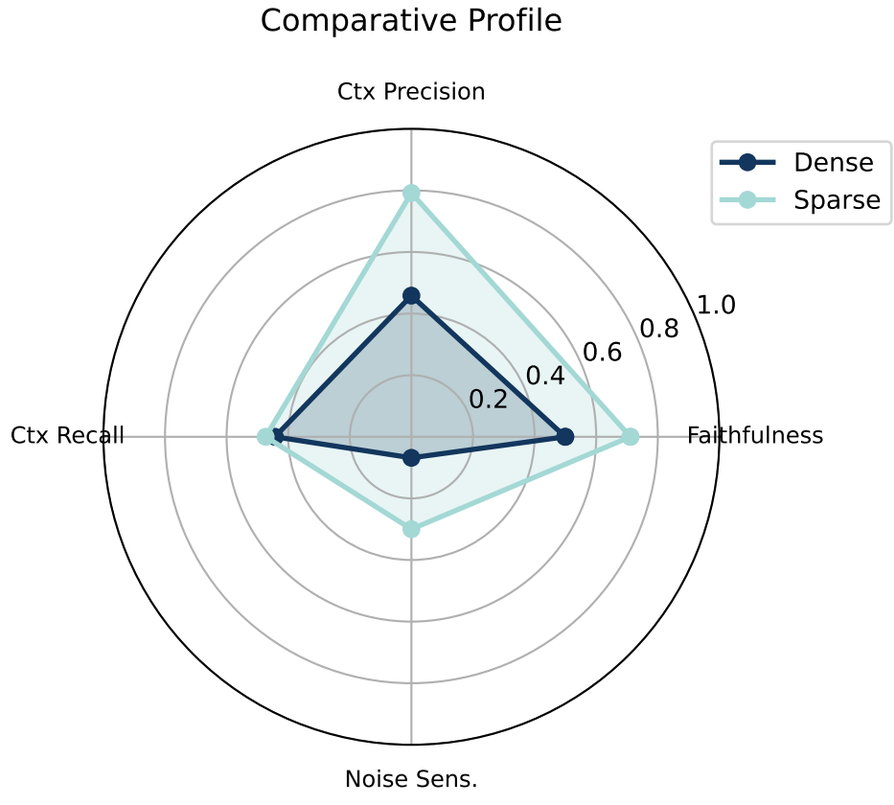
RAG Dense vs Sparse - Analysis Overview



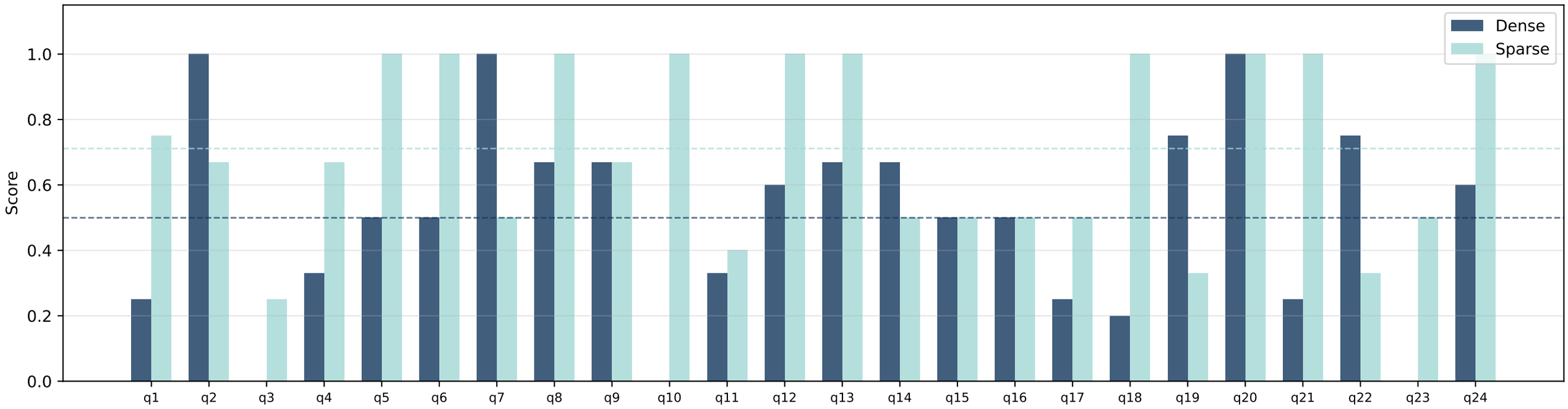


Descriptive Statistics

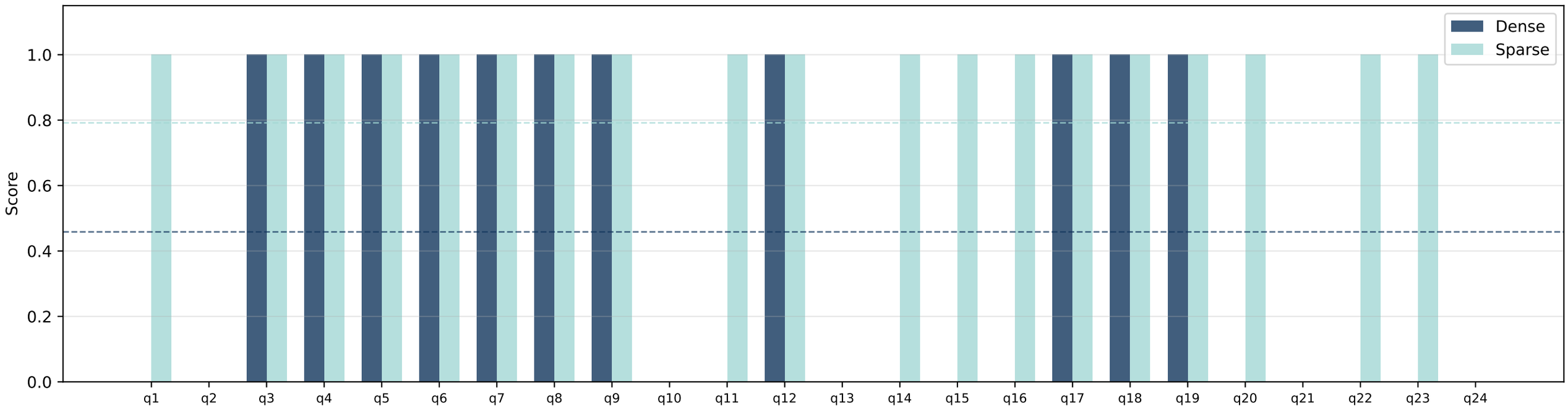
Metric	Dense μ	Dense σ	Sparse μ	Sparse σ	Δ (D-S)
Faithfulness	0.500	0.296	0.711	0.267	-0.212
Ctx Precision	0.458	0.498	0.792	0.406	-0.333
Ctx Recall	0.443	0.428	0.473	0.354	-0.030
Noise Sens.	0.068	0.131	0.300	0.330	-0.232

RAG Dense vs Sparse - Metric Breakdown by Question

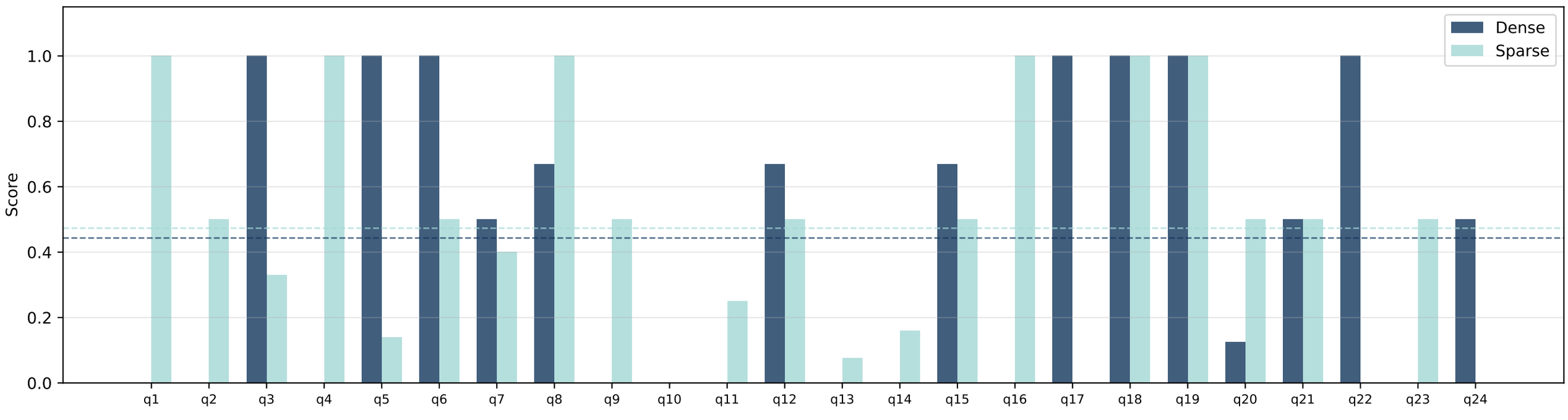
Faithfulness



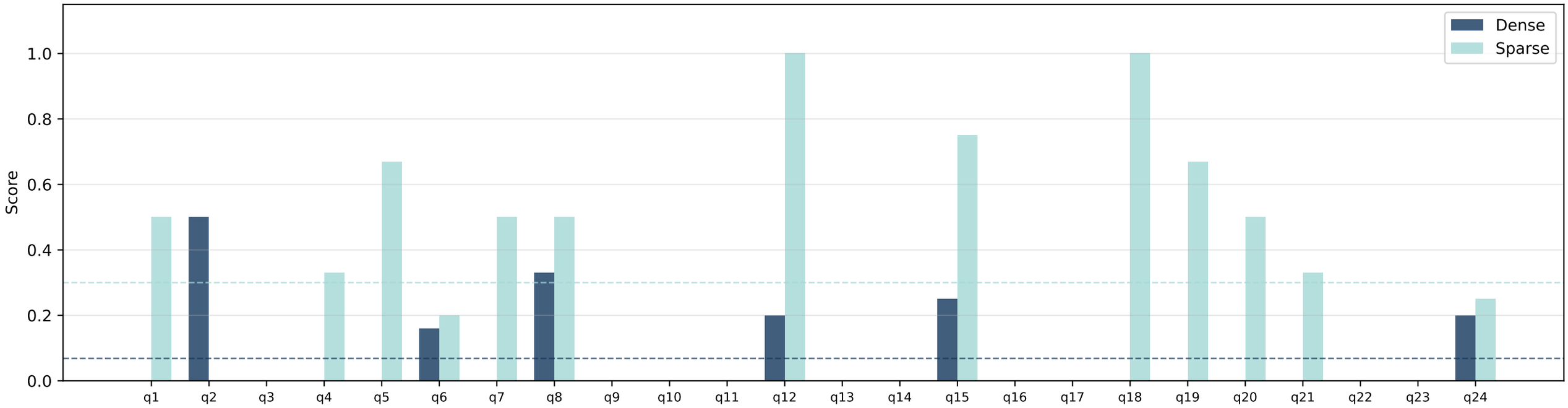
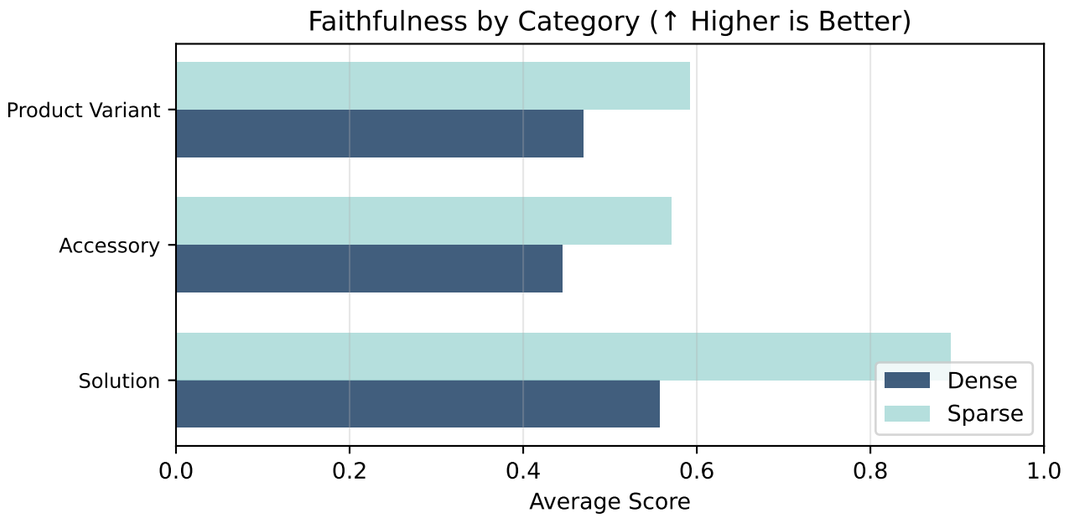
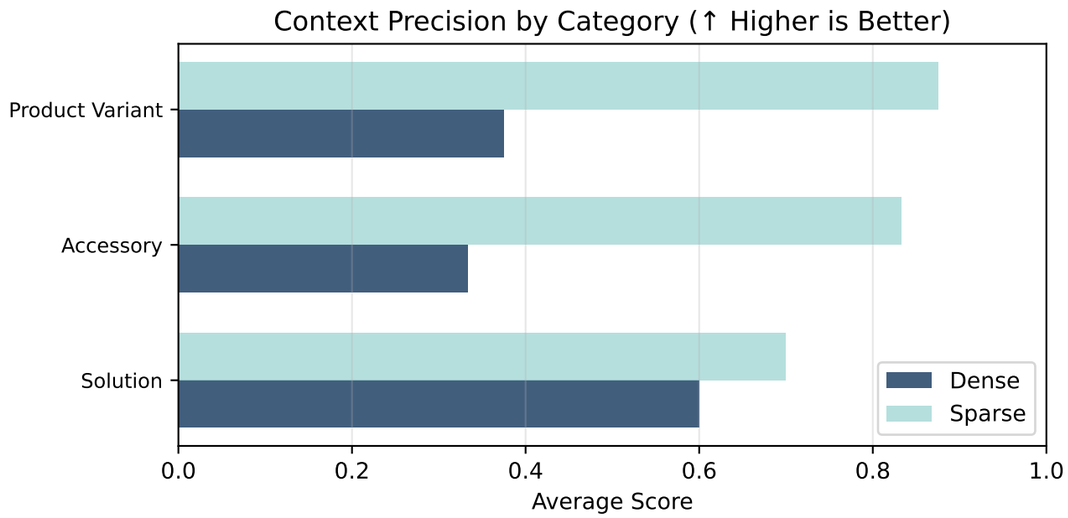
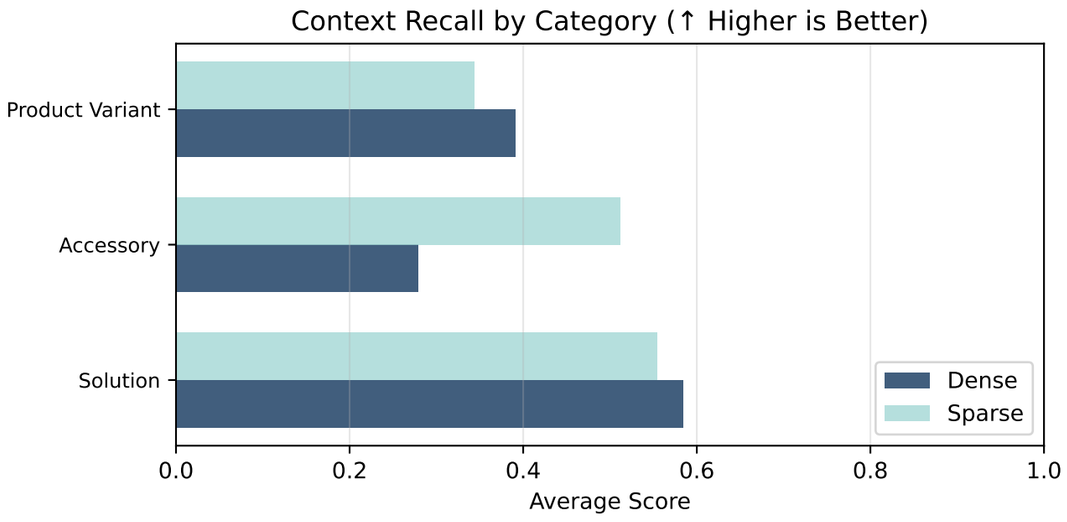
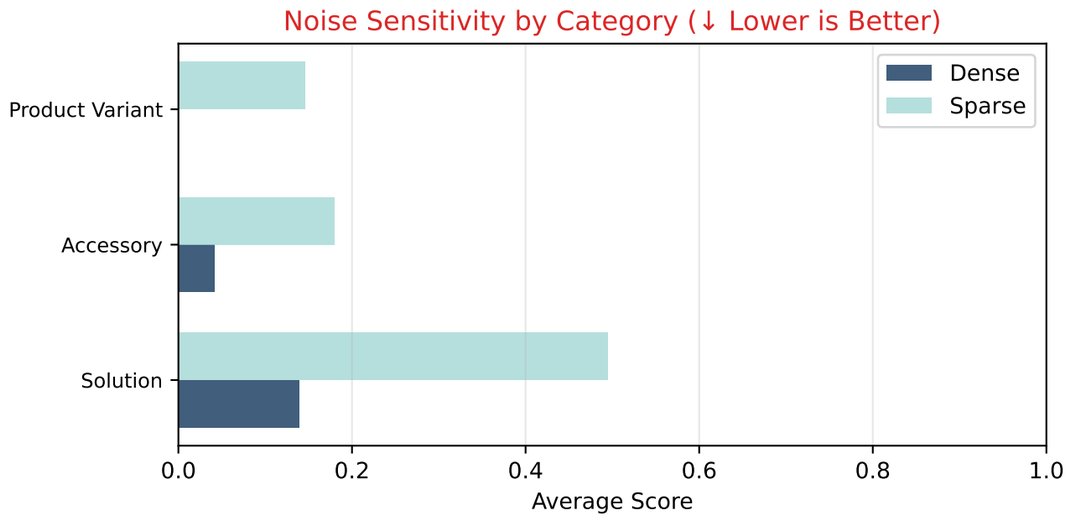
Context Precision



Context Recall



Noise Sensitivity



RAG Dense vs Sparse - Performance by Question Category