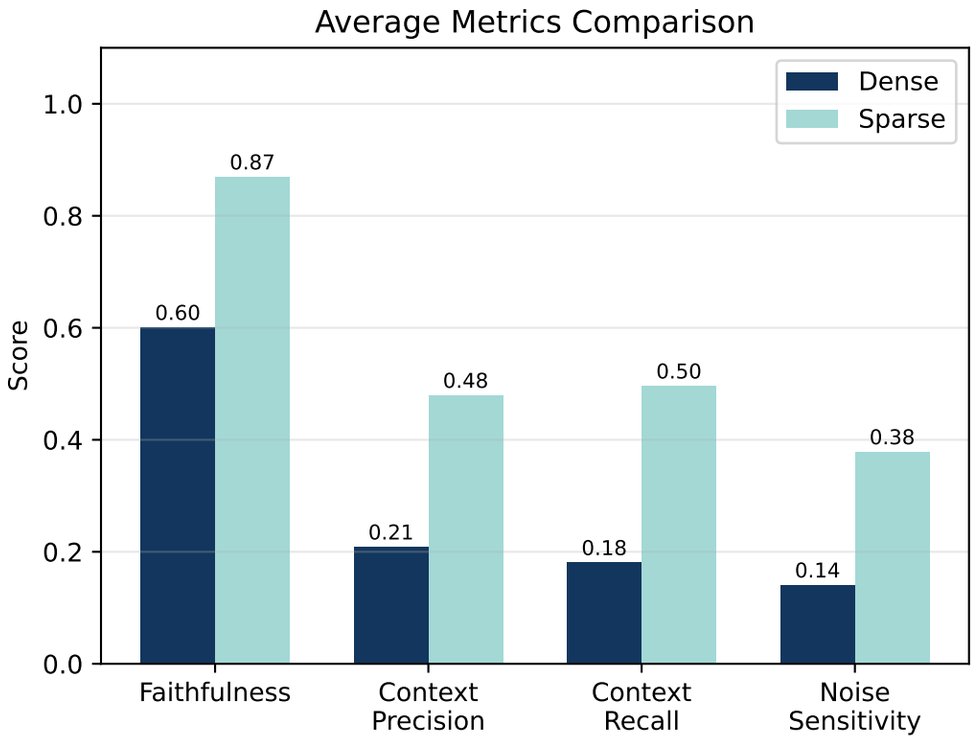
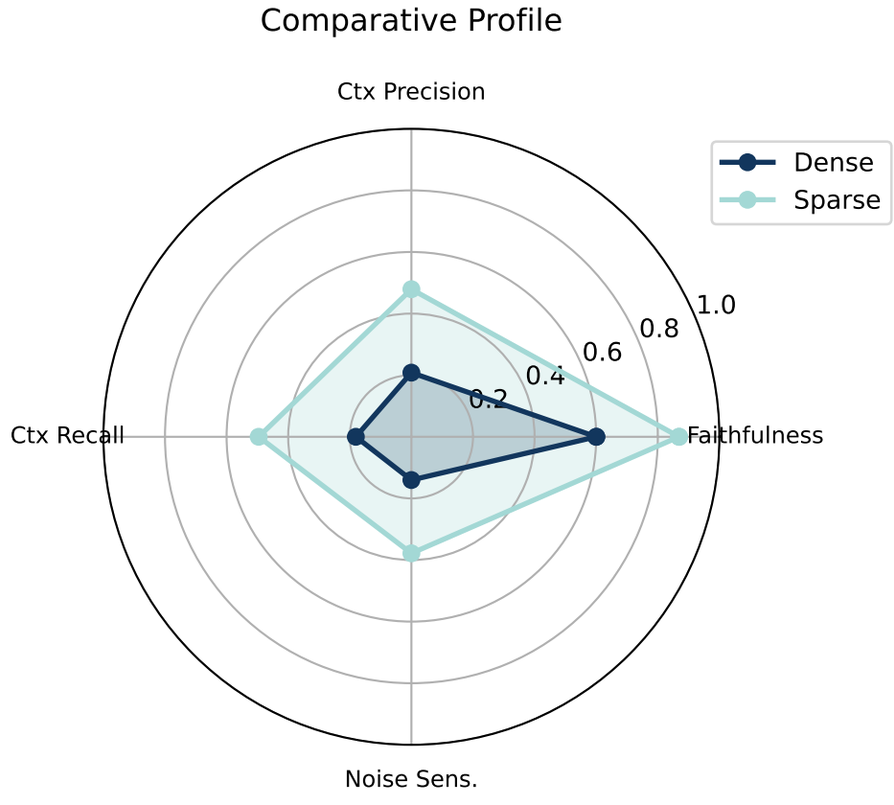
RAG Dense vs Sparse - Analysis Overview





Average Metrics Summary

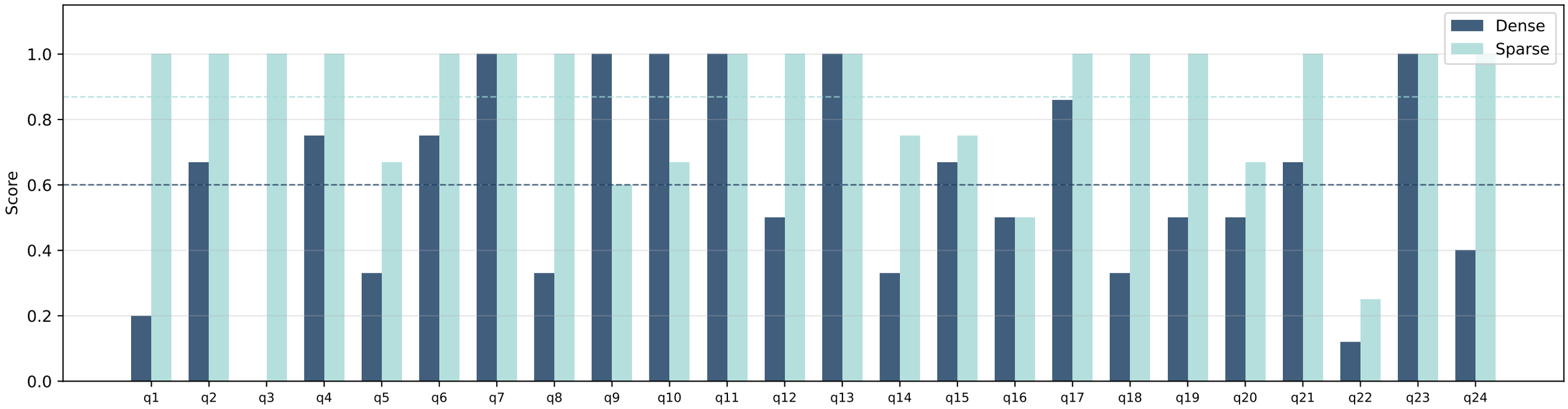
Metric	Dense	Sparse	Difference
Faithfulness	0.600	0.869	-0.269
Context Precision	0.208	0.479	-0.271
Context Recall	0.180	0.496	-0.315
Noise Sensitivity	0.140	0.378	-0.238

Descriptive Statistics

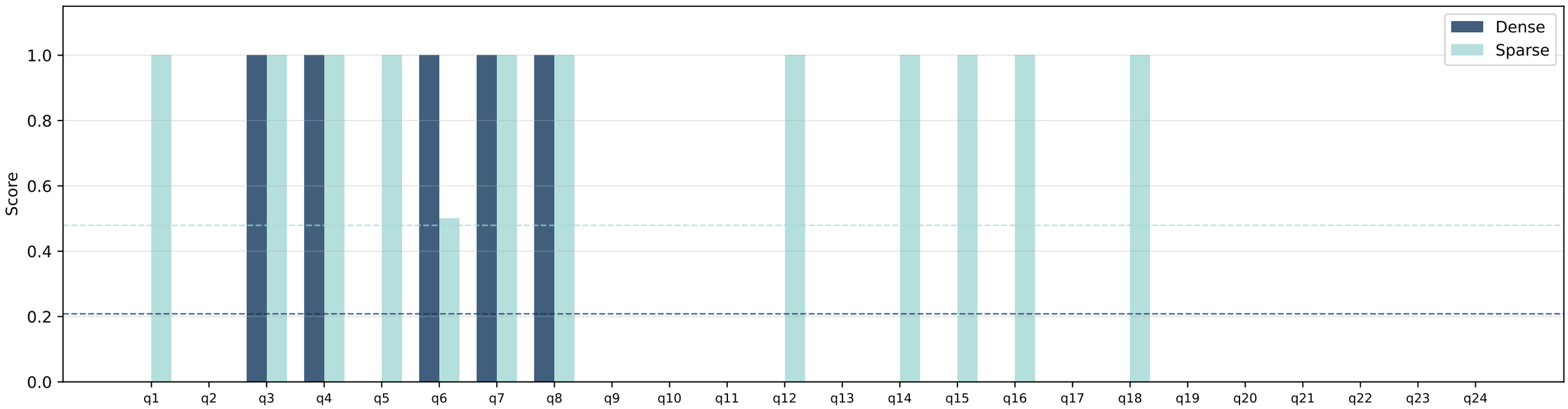
Metric	Dense μ	Dense σ	Sparse μ	Sparse σ	Δ (D-S)
Faithfulness	0.600	0.303	0.869	0.205	-0.269
Ctx Precision	0.208	0.406	0.479	0.489	-0.271
Ctx Recall	0.180	0.372	0.496	0.479	-0.315
Noise Sens.	0.140	0.281	0.378	0.403	-0.238

RAG Dense vs Sparse - Metric Breakdown by Question

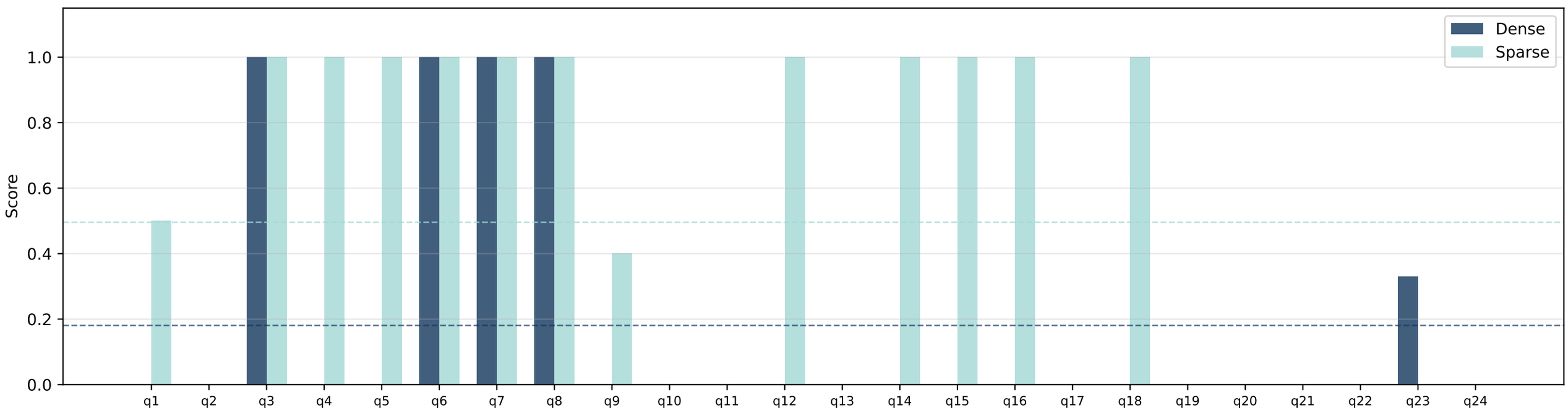
Faithfulness



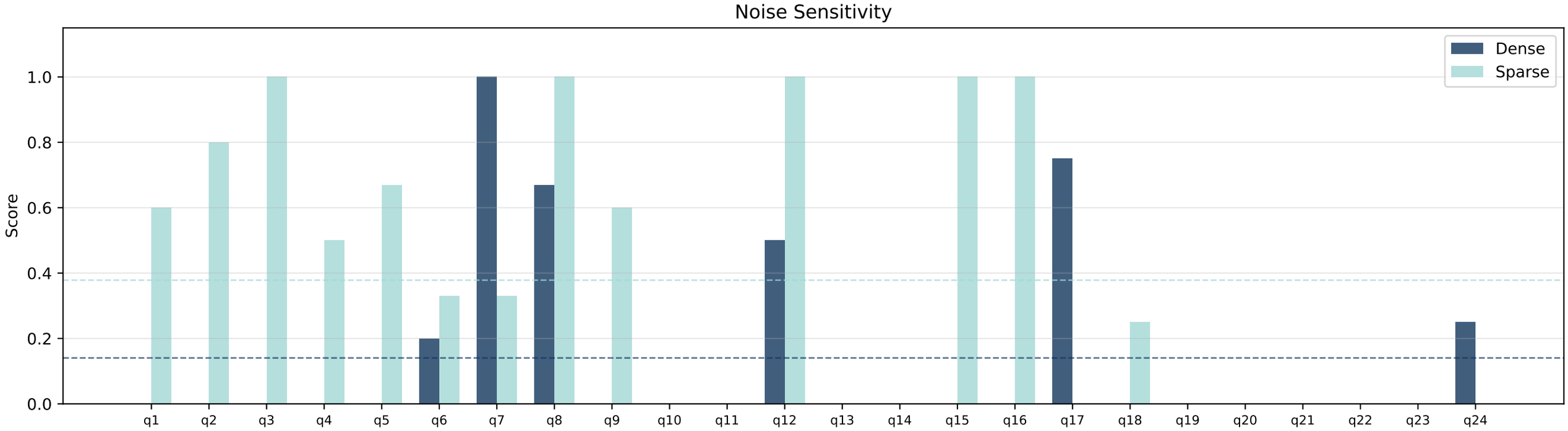
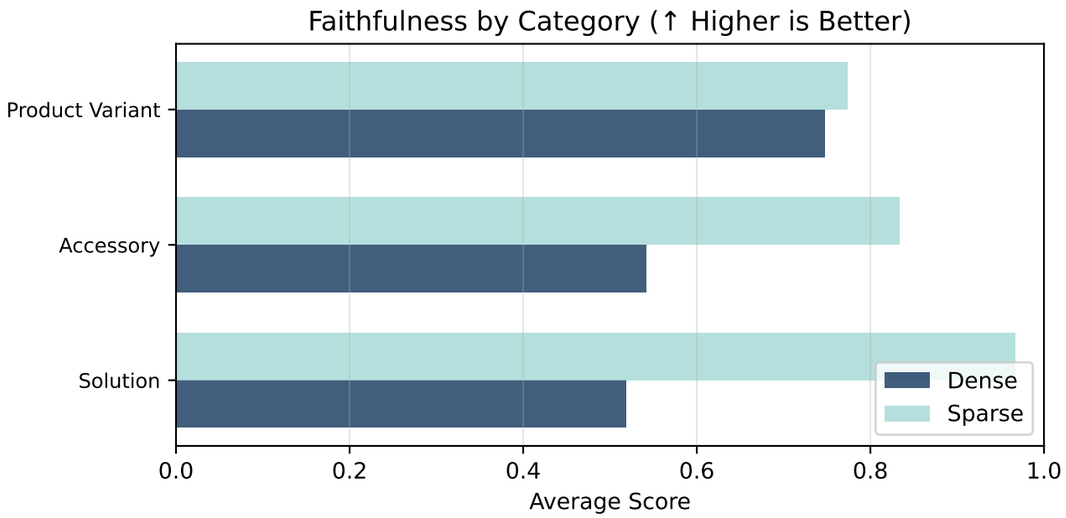
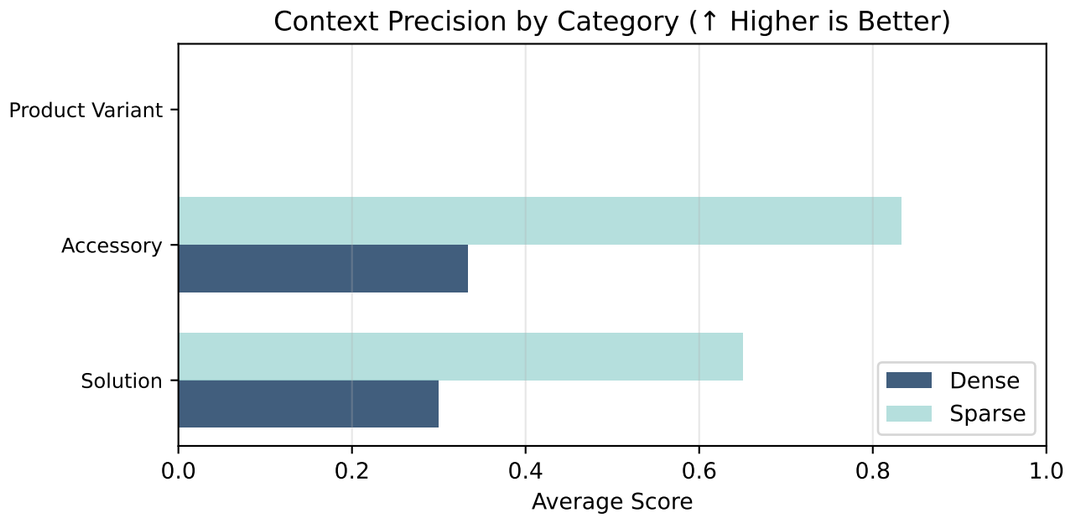
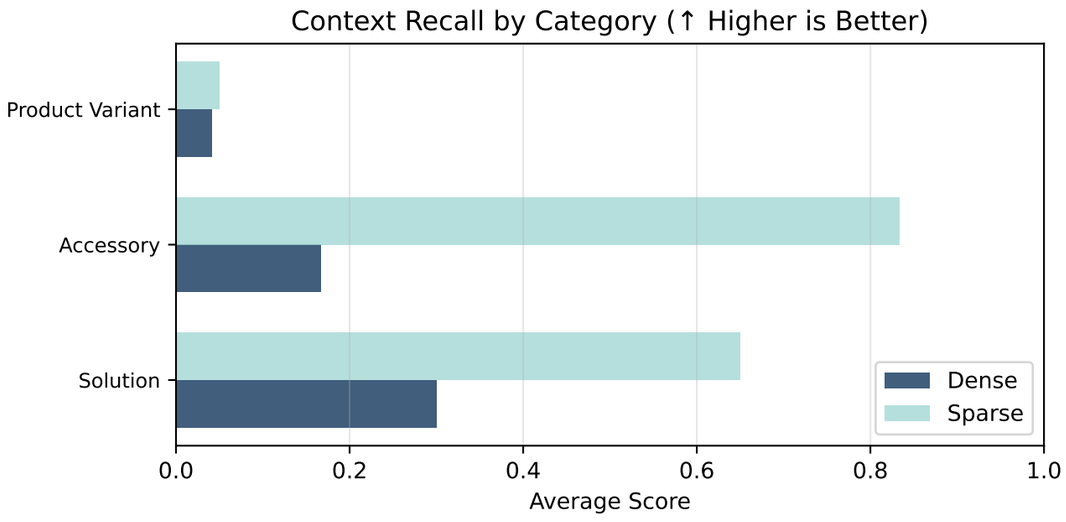
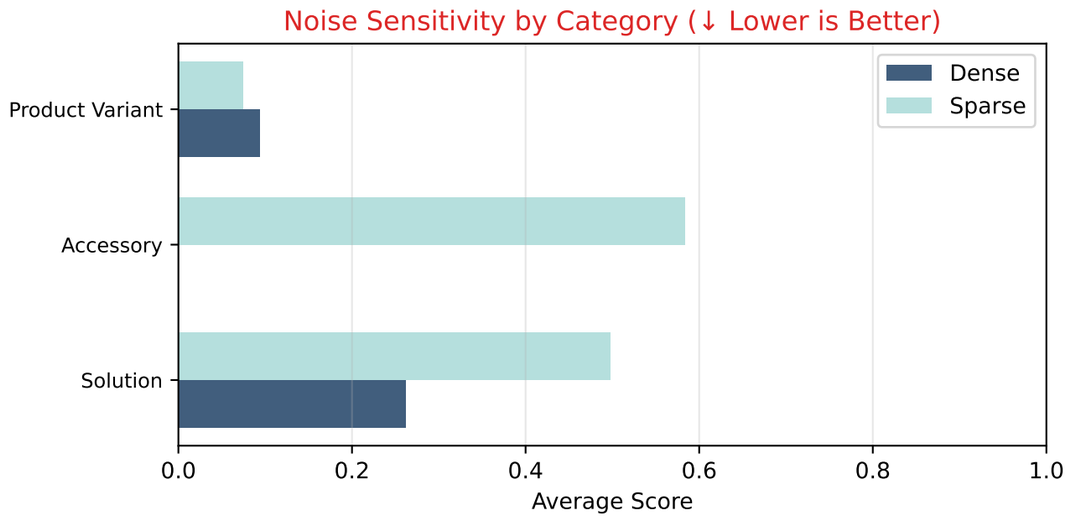
Context Precision



Context Recall



Noise Sensitivity



RAG Dense vs Sparse - Performance by Question Category