**Retrieval Drift**

Measure the consistency and stability of a document retrieval system across multiple runs

# 11 Files Dataset

Total chunks: 353

Unique sources: 11

# 2 Files Dataset

Total chunks: 43

Unique sources: 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Query** | **Source Stability (%)** | **Source Drift (%)** | **Content Stability (%)** | **Content Drift (%)** | **Successful Runs** |
| New York University high performance computing | 100.0 | 0.0 | 81.37 | 18.63 | 5 |
| New York University high performance computing | 100.0 | 0.0 | 71.9 | 28.1 | 5 |

# Key Insights

* The 11 files dataset shows higher content stability for Queries
* Always giving the same source for the same query in different runs but different chinks from the same source is being selected which could be beneficial for providing diverse but relevant information

**Semantic Overlap**

Measures how similar are the retrieved chunks

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Query** | **Semantic Overlap (%)** | **Source Diversity (%)** | **Unique Sources** | **Top 5 Chunks** |
| New York University high performance computing | 76.71 | 40 | 2 | "sources": [  "241761\_OSP\_21-2027\_Submitted\_Proposal\_NSF\_2021-09-01\_Holland\_NSF.pdf",  "241748\_Proposal\_NSF.pdf",  "241761\_OSP\_21-2027\_Submitted\_Proposal\_NSF\_2021-09-01\_Holland\_NSF.pdf",  "241748\_Proposal\_NSF.pdf",  "241761\_OSP\_21-2027\_Submitted\_Proposal\_NSF\_2021-09-01\_Holland\_NSF.pdf"  ], |
| New York University high performance computing | 64.88 | 20 | 1 | "sources": [  "Panwar\_NSF Proposal-2312847\_NSF.pdf",  "Panwar\_NSF Proposal-2312847\_NSF.pdf",  "Panwar\_NSF Proposal-2312847\_NSF.pdf",  "Panwar\_NSF Proposal-2312847\_NSF.pdf",  "Panwar\_NSF Proposal-2312847\_NSF.pdf"  ], |

**Key Insights**

* Query retrieves more semantically similar content with more sources available