

# Comparison Report

*Abstract:* This report compares the results of two different runs on the same query set.

**Baseline run:** resources BengezzouldrissMezianeGhilas\_7\_bm25\_article\_stop670\_porter\_k1\_b0.5.txt

**Test run:** resources

BengezzouldrissMezianeGhilas\_90\_bm25\_article\_sec\_table\_p\_stop670\_porter\_k1\_b0.5.txt.

## Correlation Metrics

*Correlation Metrics:* **Kendall's Tau** and **Spearman's Rank Correlation** are two metrics that measure the similarity between two rankings. The values of these metrics are shown below.

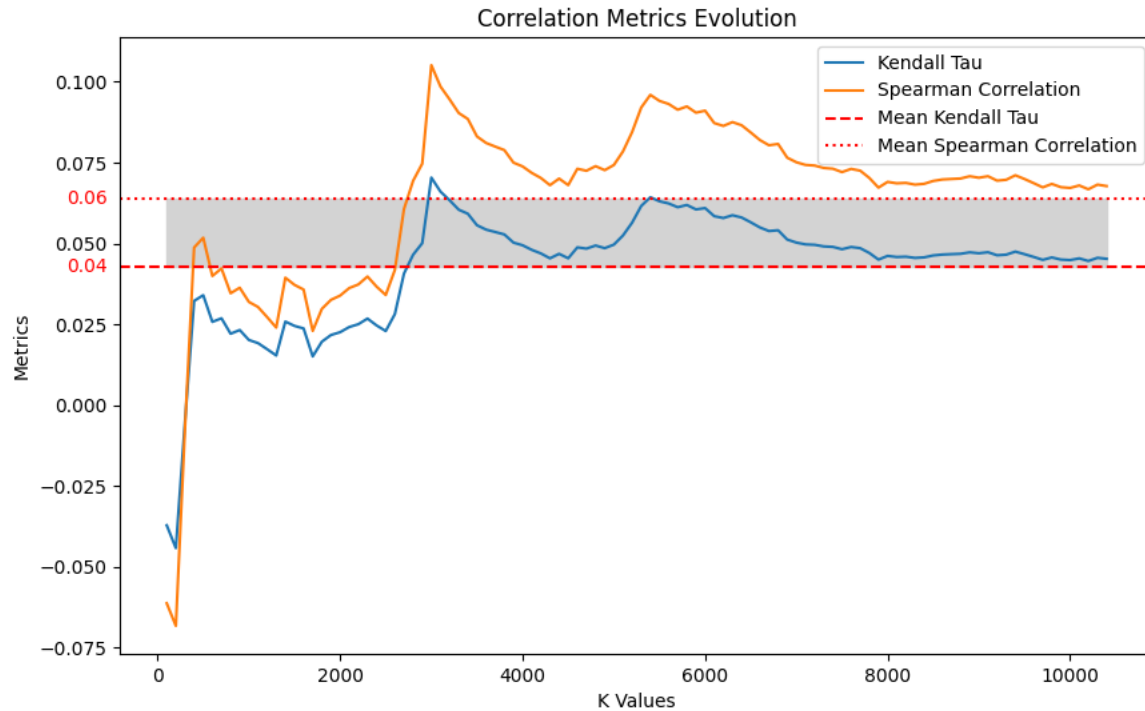
The correlation metrics are calculated using the first **1500** documents of the ranking.

*Exact values:*

| Metric                      | Value  |
|-----------------------------|--------|
| Kendall's Tau               | 0.0245 |
| Spearman's Rank Correlation | 0.0372 |

*Correlation Metrics Evolution:*

Let's observe how the correlation metrics evolve as we consider more documents in the ranking. Larger values of **K** means that more documents are considered in the ranking. The evolution of the correlation metrics is shown below.



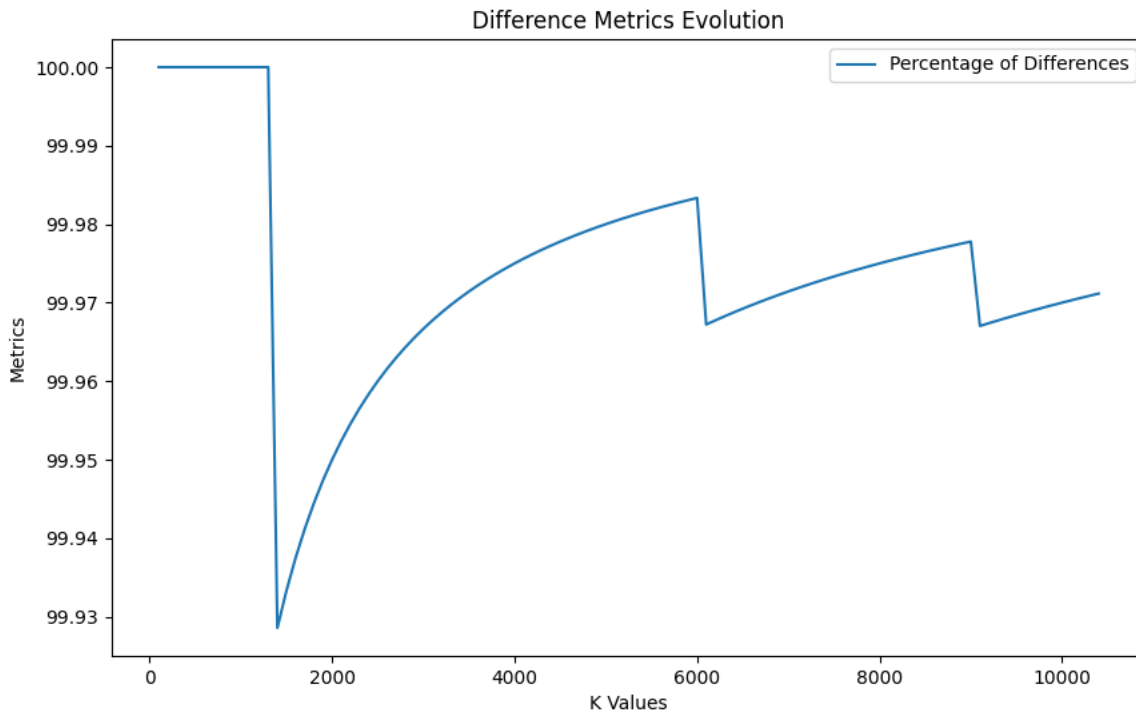
# Difference Metrics

The difference metrics are calculated using the first **1500** documents of the ranking.

| Metric                    | Value     |
|---------------------------|-----------|
| Number of differences     | 1499.0000 |
| Percentage of differences | 99.9333   |

## *Difference Metrics Evolution:*

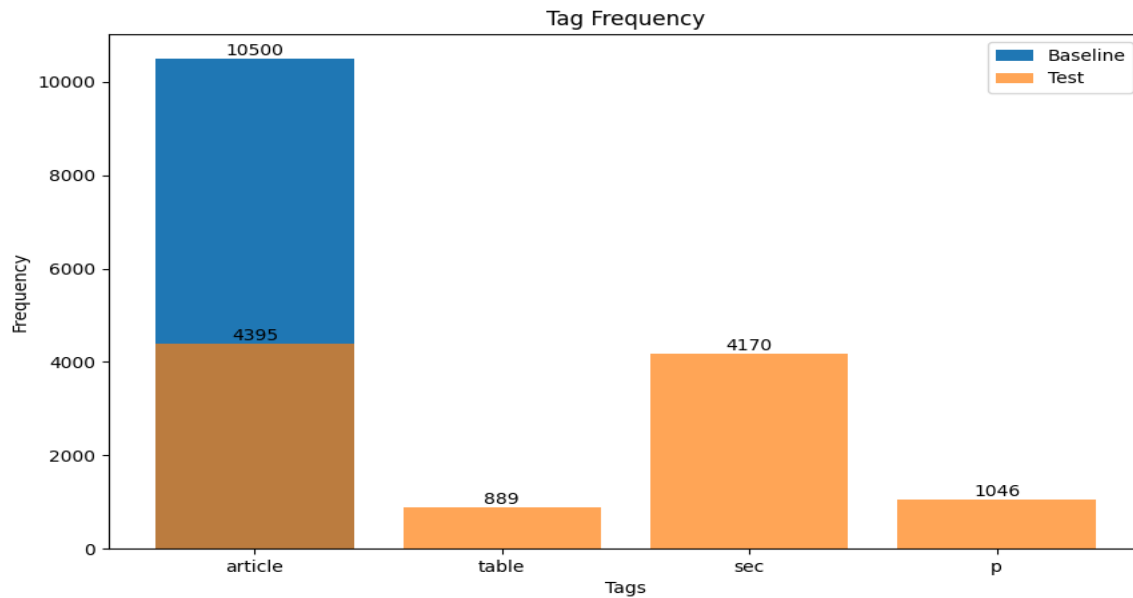
Let's observe how the difference metrics evolve as we consider more documents in the ranking. Larger values of **K** means that more documents are considered in the ranking. The evolution of the difference metrics is shown below.



# Tag Frequency

The tag frequency is calculated on the whole ranking.

In this section we will try to indentify the tags that are more frequent in the test run.



Let's say we should only consider the tags that are present in more than **10%** of the results. Then we should only consider the following tags: **sec, article**

*Tag Frequency Evolution:*

The objective is to be sure the evolution of the tag frequency is linear, which means that a query is not biased by a particular tag.

