**IR Project Report**

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Email: [tzaraf@post.bgu.ac.il](mailto:tzaraf@post.bgu.ac.il) ID: 319092268 [github link](https://github.com/zivfenig/IR_Project_ZY)

**Process:**

Initially, we aimed to build indexes for the title, body, and anchor sections of Wikipedia. Leveraging our body index from Assignment 3, we replicated the process to create a title index. Due to the time-intensive nature of creating the title index, we postponed building the anchor index and focused on designing the search function instead. To keep our code organized and easy to manage, we developed separate search functions for the title and body, which are called by the main search function. Throughout the process, we prioritized computational efficiency by utilizing PySpark. **Building search functions:**

To expedite query processing with cosine similarity, we precalculated and stored IDF values for each word in both the title and body indexes. These precalculated IDF values facilitated TF-IDF calculation. Additionally, we computed and stored the normalization factor (denominator in the cosine formula) for each document, further streamlining query execution. Furthermore, we created a document ID to title dictionary and stored it in the bucket. This optimization enhanced query performance by reducing computational overhead.

* Following assignment 3, all the following calculations were performed with the help of a cluster that we opened in GCP and a Jupyter notebook.

**Initial assessment and thinking about improvement:**

After developing search functions for each index, we realized the complexity of building and managing indexes. Instead of creating an anchor index, we leveraged the main search function from our PageRank implementation in Assignment 3. We observed that queries based on the title index initially appeared more relevant. Consequently, in our main search function, we prioritized results from the title index, while also incorporating logarithmic weighting for page rank. Our evaluation focused on query latency and result quality, measured by average query processing time, average precision of 5 queries, and average F1-score of 30 queries. This approach aimed to balance search speed with result relevance.  
  
**Average time per query:** 2.923192262649536  
**Precision at 10:** 0.36333333333333323  
**Average result quality score:** 0.275  
 **Stemming**

After we received initial results, we thought that we could improve both the quality of the results and the query time.  
In the first step, in order to reduce the size of the dictionary and make the query time easier, as well as to increase the recall, we created new indexes for the title and body, only this time we stemmed the words using a Porter stemmer.

**Average time per query:** 1.483738297589247  
**Precision at 10:** 0.36 **Average result quality score:** 0.2633333333333334

**BM25, thresholds and Threads**

As you can see we saw an improvement in the query time and the result quality. At this point we decided that we will continue to work with the indexes that have been steamed. We also adopted the BM25 similarity function, which effectively normalizes term frequency and document length, preventing any single word from dominating while penalizing longer documents. To expedite query processing, we implemented multi-threading, enabling simultaneous searches on title and body indexes, with concurrent score calculations within each search function. Additionally, we leveraged insights from "Introduction to Information Retrieval," setting a threshold for IDF scores to define the search space more effectively. Through these strategies, we aimed to achieve faster query times without compromising result quality.  
**Average time per query:** 0.5830905437469482  
**Precision at 10:** 0.4666666666666667 **Average result quality score:** 0.32306666666666667

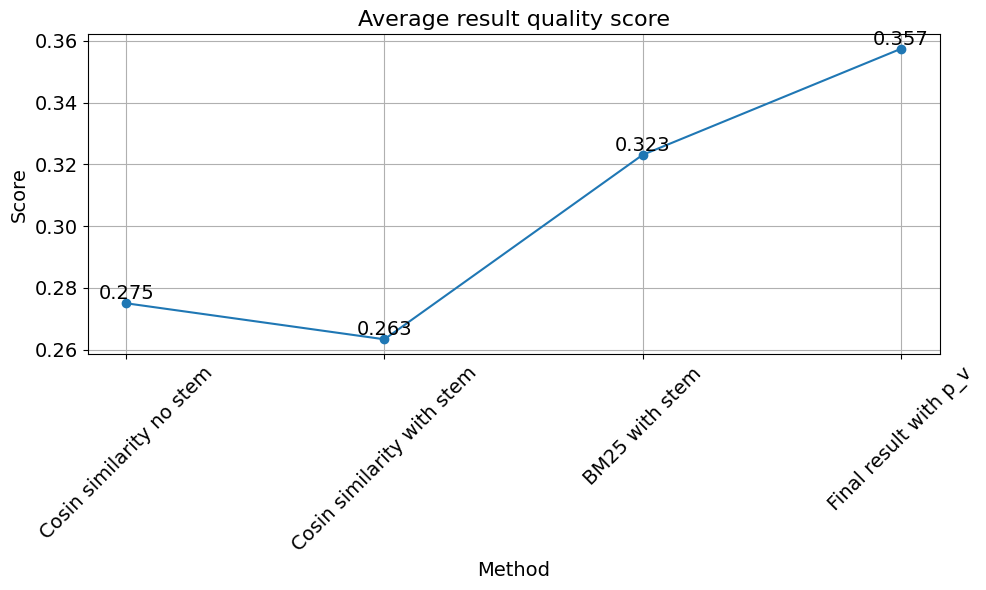
**Page views**

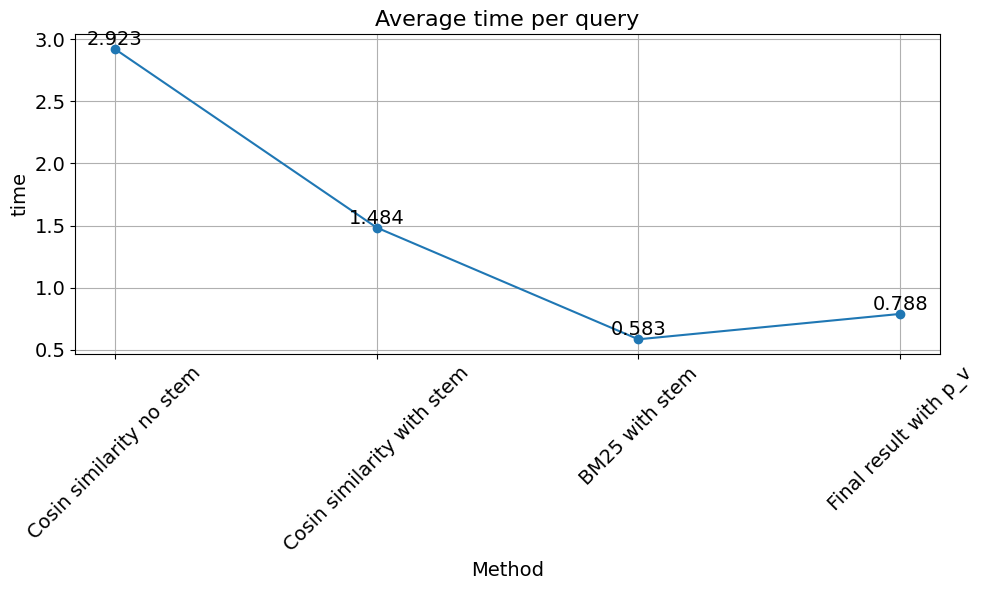
In the next step, after we noticed an improvement in the results, to further improve the retrieval quality, we used the code provided in work 1 and created a dictionary of pageviews which we saved in the bucket so that every time a search is run, it can be retrieved from the bucket.

In the main search function, we weighted the page view of each word also with log in base 10 but we added a condition to avoid errors. Since there were documents whose page view value is 0, for these documents we weighted their value by 1 so that they will reset in the log.

**Experiments and final results**

We adjusted weight values for title, body, pagerank, and pageviews to optimize retrieval results. Initially favoring the title uniformly, we noticed better outcomes for short queries. To improve longer query results and overall averages, we refined our approach. Short queries exclusively weighted the title, while longer ones prioritized the body. Medium-sized queries balanced both title and body weights, slightly favoring the title. This strategic tweak aimed to boost longer query results and elevate the overall average.  
**Average time per query:** 0.7877318859100342  
**Precision at 10:** 0.4766666666666666 **Average result quality score:** 0.35740000000000005





**Qualitative evaluation**

|  |  |
| --- | --- |
| Good query results | Bad query results |
| ('nanotechnology', 0.27825140953063965, 0.787) | ("What is the structure of the Earth's layers?", 0.9007189273834229, 0.085) |
| doc id = 21488, title = Nanotechnology | doc id = 4396171, title = Earth's rotation |
| doc id = 19637, title = Molecular nanotechnology | doc id = 1417149, title = Structure of Earth |
| doc id = 26901564, title = DNA nanotechnology | doc id = 78300, title = Physical layer |
| doc id = 38324933, title = Applications of nanotechnology | doc id = 85024, title = Network layer |
| doc id = 7064233, title = History of nanotechnology | doc id = 224301, title = Boundary layer |
| doc id = 7200558, title = Impact of nanotechnology | doc id = 146249, title = Earth's outer core |
| doc id = 1032221, title = National Nanotechnology Initiative | doc id = 1065882, title = Germ layer |
| doc id = 3165257, title = Nanotechnology in fiction | doc id = 30862590, title = Link layer |
| doc id = 4647936, title = Nature Nanotechnology | doc id = 2064083, title = Layering |
| doc id = 14431229, title = Outline of nanotechnology | doc id = 102181, title = Presentation layer |

**Explnations:**

The observed discrepancy in performance between short and long queries, particularly those formulated as questions, can be attributed to several factors. Firstly, our indexing approach may not adequately capture semantic relationships between words, which are crucial for understanding the context and intent of longer queries. As a result, the engine may struggle to retrieve relevant documents for complex queries with multiple terms or concepts.  
Additionally, stemming, while beneficial for reducing the dimensionality of the index and improving search efficiency, can inadvertently lead to the loss of important semantic information, especially in longer queries. Words in longer queries may be stemmed to their root forms, potentially altering their original meaning and reducing their relevance to the query.  
Integrating bi-grams into our indexing process enriches the representation of terms by capturing pairs of consecutive words, enhancing the engine's understanding of longer queries and mitigating the loss of semantic information due to stemming. This enables better matching of queries with relevant documents by capturing nuanced semantic relationships between terms.

**Appendix**

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96.43 KiB gs://318964772/postings\_gcp/90\_posting\_locs.pickle

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103.3 KiB gs://318964772/postings\_gcp/92\_posting\_locs.pickle

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99.28 KiB gs://318964772/postings\_gcp/96\_posting\_locs.pickle

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0 B gs://318964772/pr/\_SUCCESS

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325.24 KiB gs://318964772/title\_InvertedIndex/0\_posting\_locs.pickle

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328.78 KiB gs://318964772/title\_InvertedIndex/100\_posting\_locs.pickle

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