

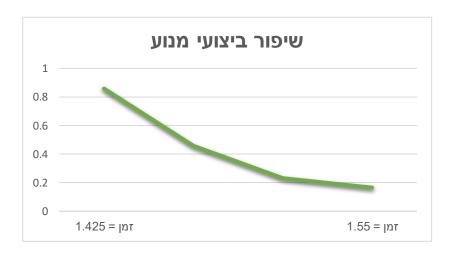
## דו"ח עבור פרוייקט מנוע אחזור בקורס אחזור מידע

- b. https://github.com/ayemoy/RetrieveProject
- c. Link to anchor postings gcp bucket
  Link to title posting gcp bucket
  Link to body postings gcp bucket
- d. Link to list all index files
- e. While building the search engine we performed a number of key experiments in order to evaluate and improve the performance of the retrieval results. At first, we tried to use the BM25 algorithm to optimize the results coming out of the queries, but changing the parameters in the class did not yield us satisfactory results. (We had 46% fail in the search function and 86% fail in the body search function).

We then tried to use the similar cosine formula to optimize the search results, and we saw that the results improved miraculously.

Therefore, we decided to combine the two search functions for the body of the article and the title of the article, give them weights, and use the cosine function, thus optimizing the search engine (we have 16% failures in the main search function of the engine, averaging 1.7 for 30 queries, and an average of 0.526 for map @ 40).

f.



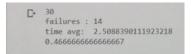
## g. screen shoots:

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C+ 30 failures: 5 time avg: 1.5858024915059408 0.166666666666666666

C+ 30 failures : 7 time avg: 1.5558143615722657 0.2333333333333333334

h. We ran the query "migraine" and the query "Does pasta have preservatives?", We saw that for the query "migraine" we got the score 0.949, and passed the query "Does pasta have preservatives" we got the score 0.121.

It can be seen in the first results that queries are repeated that are relevant to "pasta" but not to "preservatives".

However, in the query "migraine" more relevant results are repeated.

This is because the more words the query contains, the harder it is to pinpoint the results that need to be returned. When a query consists of only one word then the documents dealing with exactly that word can be returned.

[[25659792, "Pasta (disambiguation)"], [23871, "Pasta"], [388697, "List of pasta"], [34121672, "Dry pasta line"], [53487581, "Banana pasta"], [824526, "Gemelli (pasta)"], [4275382, "Pasta e agioli"], [6760389, "Fiori (pasta)"], [8245307, "Lanterne (pasta)"], [43843664, "Ditalini"], [6984468, "Pasta salad"], [61014433, "Wine preservatives"], [29191077, "Bavette (pasta)"], [43911472, "List of pasta dishes"], [9303405, "Mafaldine"], [67279077, "Cascatelli"], [59404581, "Pasta processing"], [13801712, "Pastina"], [23854177, "U@15eehriye"], [48497882, "Capunti"], [1330188, "Al dente"], [54155622, "Pasta mollicata"], [55368589, "Museum of Pasta"], [56383357, "Tortiglioni"], [15974787, "Foglie d'ulivo"], [48461814, "Casarecce"], [47710154, "Fagottini"], [824710, "Cencioni"], [2515156, "Sacchettoni"], [5725592, "Pasta all Ortolana"], [45677868, "Pasta con le sarde"], [251520, "Pillus"], [2515213, "Lasagnotte"], [43911086, "Ciceri e tria"], [1296540, "Pasta al pomodoro"], [31585693, "Pasta alla Horma"], [65360198, "Pasta con i peperoni cruschi"], [57492967, "Pasta alla gricia"], [531849, "Giuditta Pasta"], [13226043, "Rastakraut Pasta"], [2864831, "John Pasta"], [3141956, "Faerfalle"], [6728737, "Baked ziti"], [27274354, "New World Pasta"], [1876749, "T\u0076747, "U007671, "



[21835, "Migraine"], [24224679, "ICHD classification and diagnosis of migraine"], [31556991, "Migraine Action Association"], [11495285, "Migraine (disambiguation)"], [2762939, "Acephalgic migraine"], [20038918, "Migraine Boy"], [234876, "Migraine (book)"], [40748148, "Genetics of migraine headaches"], [62871079, "Menstrual migraine"], [7362788, "Sporadic hemiplegic migraine"], [22294424, "Migraine-associated vertigo"], [23174077, "Migraine Aura Foundation"], [7362708, "Hemiplegic migraine"], [22352499, "Retinal migraine"], [18741438, "Migraine Turst"], [55175287, "Mane MacGregor"], [44627466, "Edwin Bickerstaff"], [25045060, "Prevention of migraines"], [61386909, "Marcia Wilkinson"], [54077917, "Rimegepant"], [57672434, "Ubrogepant"], [5935284, "Eptinezume"], [4909927, "Perl 22, 2888], [26588999, "Migraine (Moonstar88 song)"], [5690287, "Scintillating scotoma"], [40428462, "Migraine Specific Quality of Life"], [50083084, "Eptinezume"], [4099927, "Perl 22, 2888], [26588999, "Migraine (Moonstar88 song)"], [5090287, "Scintillating scotoma"], [40428462, "Migraine Specific Quality of Life"], [5008308, "Eptinezume"], [400929, "Familial hemiplegic migraine"], [739855, "Visual snow"], [11193835, "Cortical spreading depression"], [50977642, "Galcanezumab"], [3868233, "Eletriptan"], [51978678, "Erenumab"], [406029, "Familial hemiplegic migraine"], [406069, "Onze Danses Pour Combattre la Migraine"], [36666029, "Occipital nerve stimulation"], [36579642, "Abdominal migraine"], [36579839, "Calicitonin generalated peptide receptor antagonists"], [5512128, "Janisha Marchiane Migraine"], [5197248, "Foretamine,"], [5197244, "Ricagepant"], [3332410, "Methysergide"], [67754025, "Peter Goadsby"], [54027296, "William J. Binder"], [47403613, "Michel Ferrari"], [12652799, "Naratriptan"], [14725943, "ATPLA2"], [3867847, "Almotriptan"], [67754025, "Peter Goadsby"], [54027296, "William J. Binder"], [47403613, "Michel Ferrari"], [12652799, "Naratriptan"], [14725943, "ATPLA2"], [3867847, "Almotriptan"], [18264519, "Diatotrizairies"], [3650

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