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and using a document-b	e model for the IR subtask ased storage method.	Experiments tical analysing able 2: The number of topics with L2 labels.	Experimen • Search process	ts
Search.	edded retrieval algorithms	Number of topics L2 label 69 sum 192 1: The number of L2 labels in the training set		Set Rank Of List Yes Doc List With



- A common strategy for text-based information retrieval is to use a ranking function to rank all texts according to search terms and select the top n.
- This report describes and discusses our results using different textual similarities for topics in the IR subtask to calculate how well topics match documents and returning a sorted list.

Methods

• LM Jelinek Mercer Similarity algorithm:

Under the query-likelihood approach, language models for IR try to estimate for each document the probability that the query Q was generated by the underlying language model. If it is assumed that terms occur independently, then the probability becomes the product of the individual query terms given the document mode.

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Conclusion

• In the final performance results, the effect presented by our team is moderate in the overall performance

Reference

- Makoto P. Kato, Hiroaki Ohshima, Ying-Hsang Liu, and Hsin-Liang Chen. 2022. Overview of the NTCIR-16 Data Search 2 Task. In Proceedings of the NTCIR-16 Conference
- Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze, Introduction to Information Retrieval, Cambridge University Press. 2008.ISBN:978-1-4503-0000-0/18/06 [J]



Table 1 records the number of L2 labels in the training set and the size of the training set.

Table 2 records the number of topics with L2 labels and the total number of topics in the training set.

Figure 1 counts the number of document entries in the training set corresponding to each topic.

Figure 2 counts the number distribution of L2 label in topics.