Quizzes No1
Information Retrieval
Papers with their solutions

Sections

A, B, C and D

Quiz Instructions

- **Sit Separately and close your Cell Phone and Note books**
- **Take out your A4 pages**
- **Write on the top of the A4 paper:**
- Quiz No.1
- Name, Information Retrieval, Section, Time 8 Minutes
- Registration No., Total Marks = 10

Sections A and B

Question: What field involves models specifically designed for searching and organizing information from large data sets?

Answer

- In the context of Information Retrieval (IR), the sentence means that the models used in IR are specifically designed for searching, retrieving, and organizing information from large sets of data. They have unique features and algorithms tailored for this purpose, which makes them different from general-purpose software that is used for a wide range of other tasks.
- **Word:** Retrieval

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Section C

Question: What process adjusts for differences in the overall length of vectors when calculating their similarity?

Answer

- By dividing the dot product of the vectors by the product of their magnitudes, we effectively normalize the similarity score. Normalization accounts for the differences in the overall length (magnitude) of vectors. Without normalization, longer vectors would tend to have higher dot products simply due to their length, which might not accurately reflect the similarity between the vectors.
- **Word:** Normalization

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Section D

Question: What aspect of vectors does cosine similarity primarily depend on in vector space?

Answer

- Cosine similarity is independent of the absolute length of the vectors. It only depends on the direction of the vectors in the vector space. This means that the similarity score remains consistent even if the length of the vectors (i.e., the number of terms in documents or queries) changes.
- **Word:** Direction