A TOOL FOR CUSTOMIZED SEARCHING OF RESEARCH ARTICLES (ASSORT)
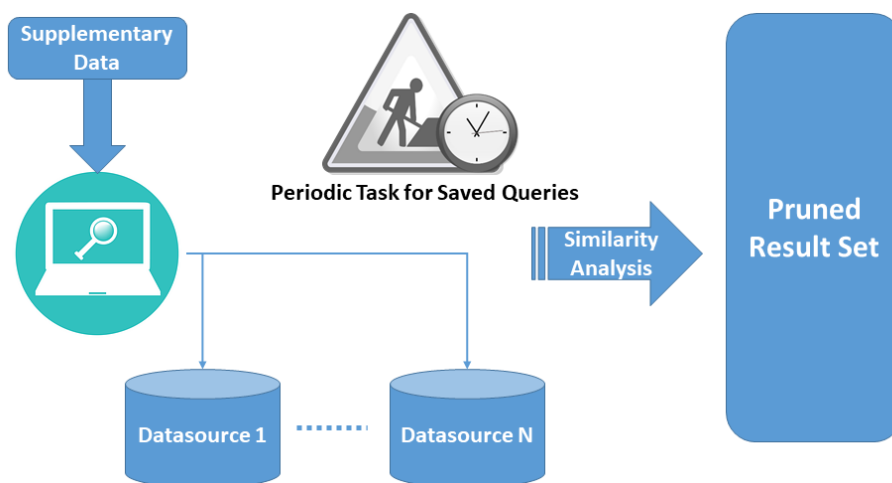## Cmpe 491 Or Cmpe 492

1. Objective

The overall objective of this project is to improve the search experience of research articles by providing supplementary information (abstracts of representative manuscripts).

The main objectives of this project are:

O1. to create a search system that retrieves relevant papers given a query consisting of keywords and a set of abstracts from representative papers,

O2. to develop a method for pruning less related articles from the result set corresponding to the keywords by utilizing the provided abstracts,

O3. to create a user-space to save user queries and to enable notification of updates to selected queries.

O4. to provide a REST API that makes the results of this analysis available.

2. Description

The following provides some guidelines for the main objectives:

O1: There are several resources that provide well documented APIs to fetch information about scientific publications: PubMed API, Elsevier Article Metadata API, Springer Nature API, PLOS API, ArXiv API, and IEEE Xplore API will be utilized for accessing metadata of scientific publications. There will be a simple search screen that accesses meta data sources and has input option for the abstracts of representative papers.

O2: The search results will be compared to the given abstracts to eliminate the items that are not sufficiently similar to provide more relevant results.

3. Required Skills

- Experience with REST API
- Python
- Web application

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