Search Application for Popular Sinhala Songs
CS4642 Mini Project Proposal

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1   Introduction

Metaphors [1] are used in many Sinhala Songs to make them more interesting. Searching information about metaphor and usage of songs can be useful to many different people. Finding information about metaphors and metaphor usage using a general purpose search application will be difficult, specially in Sinhala language. This project intended to build a full-text and query based search application for finding information about metaphors and usage of metaphors in Sinhala Songs.

2   Objectives

- Creating a text corpus [2] including the information about metaphors and its usage in Sinhala Songs (at least 100).

- Building a search application with rich searching capabilities such as full-text search, fuzzy matching [3], query based filtering.

- Optimizing the searching experience to easily find metaphors and its usage in songs.

3   Use Cases

- Finding the meaning of metaphors that are used in a song. This would be helpful to people who are interested in understanding the meaning of the song.

- Finding the usage of metaphors in selected songs. This would be helpful to people who are interested in composing songs, as well as people who are interested in metaphor usage of songs.

- Finding which metaphors are used in songs to get a certain meaning. This would be helpful to people who are composing songs.

- Finding the usage of a metaphor in songs.

4   Implementation

4.1   Text Corpus

Information of more than 100 of songs will be included in the dataset. For each song, attributes such as lyricist, singer, composer, album, year. etc. will be included in addition to the metaphors and metaphor usage.

4.2   Search Application

Most of the information retrieval functionalities are processed through Elasticsearch [4]. Easy to use web user interface will be developed.

4.3   Resources

Project source code and the dataset is hosted on Github,

  ThilinaTLM/Sinhala-Song-Search-Engine

References

[1] "Metaphor - wikipedia," https://en.wikipedia.org/wiki/Metaphor, (Accessed on 12/09/2022).

[2] "Text corpus - wikipedia," https://en.wikipedia.org/wiki/Text_corpus, (Accessed on 12/09/2022).

[3] "Approximate string matching - wikipedia," https://en.wikipedia.org/wiki/Approximate_string_matching, (Accessed on 12/09/2022).

[4] "Free and open search: The creators of elasticsearch, elk & kibana — elastic," https://www.elastic.co/, (Accessed on 12/09/2022).