

Team 10

<u>Subject</u>: How to retrieve a list of movies with a given query (e.g., "love" for movie1, movie2, etc) by searching the movie script dataset from https://imsdb.com/

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Summary

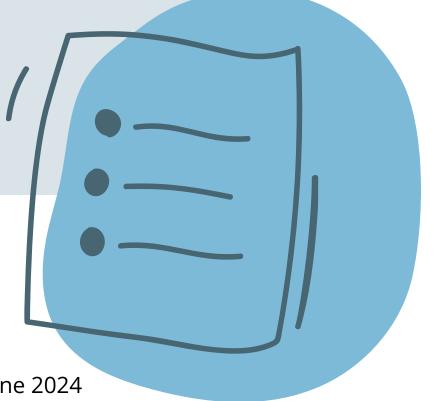
- THE PROJECT & FEATURES
- DATA RETRIEVAL
- SEARCH ENGINE
- EVALUATION
- RESULTS INTERPRETATION



Project & Features

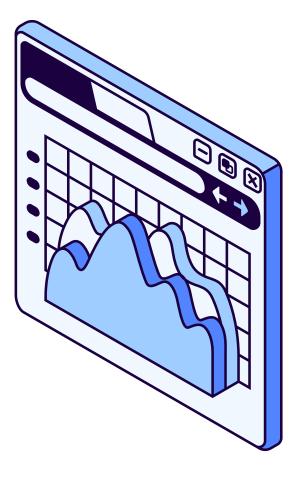
Search engine to retrieve scripts containing a certain keyword(s) in the IMSDb.com.

- Search by Word
- Filter by Genre
- Filter by Writer
- Filter by Date Range
- User Interface



Data Retrieval

- Python
- Web scraping
- Storing data in csv file
 - Title
 - Writers
 - Genres
 - Script date
 - Movie release date
 - Script



Search Engine



- Basic keyword search
- Filtering
- Simplified Boolean Model
 - Exact match
 - AND operator
- Narrow down results
 - by genre
 - by writer
 - by date range



More genres than IMSDb filters

Evaluation

- Precision
- Recall
- F1 Score
- Manual evaluation
 - "love" in Western genre
 - obtained 15 results
 - manual check
 - all 15 results contained word "love"

\$ python3 effectiveness.py

Precision: 1.00

Recall: 1.00

F1 Score: 1.00

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Results Interpretation

- Exceptionally high precision and recall rates
- Why?
- Simple Keyword Search
- Comprehensive Filtering

Limitations: Incomplete Data

- missing essential information
- not retrieved