KEPLER

Design and UI

RECOMMENDATION ENGINE OBJECTIVE



SAMPLE DATA SETS

- TMDB 5000 MOVIE DATASET | KAGGLE
- THE INDIAN MOVIE DATABASE | KAGGLE
- TED TALKS | KAGGLE

1-* Session

ConfigMgr

Audit

1-* Message

1-* DataFile

1-* WorkingColumn

1-*CombineColumn

Transform

1-* TransformInstruction

Analyze

1-* VectorizeInstruction

1-* SparseStack

Recommend

RecommendColumn

OBJECT MODEL

CONFIGURATION - MULTIPLE FILE SOURCE



tmdb_5000_credits.csv



tmdb_5000_movies.csv

```
"files" : [
        "filename" : tmdb_5000_credits.csv",
        "na-filter": thue,
        "workingColumns": [
                "header" : "movie_id",
                "is-json" : false
               "header" : "title",
                "is-json" : false
                "header" : "cast",
               "is-json" : true,
                "extract-element" : "name",
                "item-count": 3
                "header" : "crew",
                "is-json" : true
        "drop": [],
        "rename" : [{"movie_id": "id"}],
        "combineColumns" : []
        "filename" : "tmdb 5000 movies.csv",
        "na-filter": false,
        "workingColumns": [
                "header" : "id",
                "is-json" : false
               "header" : "genres",
               "is-json" : true,
               "extract-element" : "name",
                "item-count": 3
```

WELCOMEPAGE

Getting Started

Congratulations on installing and executing the Kepler Recommendation Engine.

- Upload one or more data files.
- Define a configuration for your recommendation system in a JSON file.
- Upload the configuration file to the recommendation system.
- Parse the configuration file for issues and edit to make corrections.
- Process the data files.
- Make recommendations.

Datasets TedTalk https://www.kaggle.com/miguelcorraljr/ted-ultimate-dataset

Quick Link Reference

Recommendation REST endpoints: Swagger

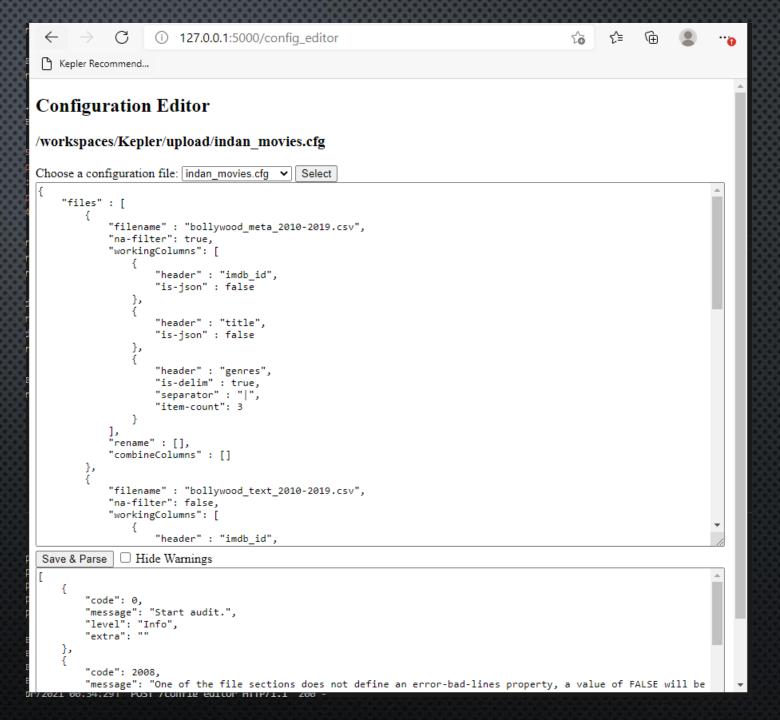
Configuration editor and parser: Editor

Test your recommendation configuration: Recommender

Upload: data file

Upload: configuration file

CONFIGURATION EDITOR



RECOMMENDER PAGE



Recommendations

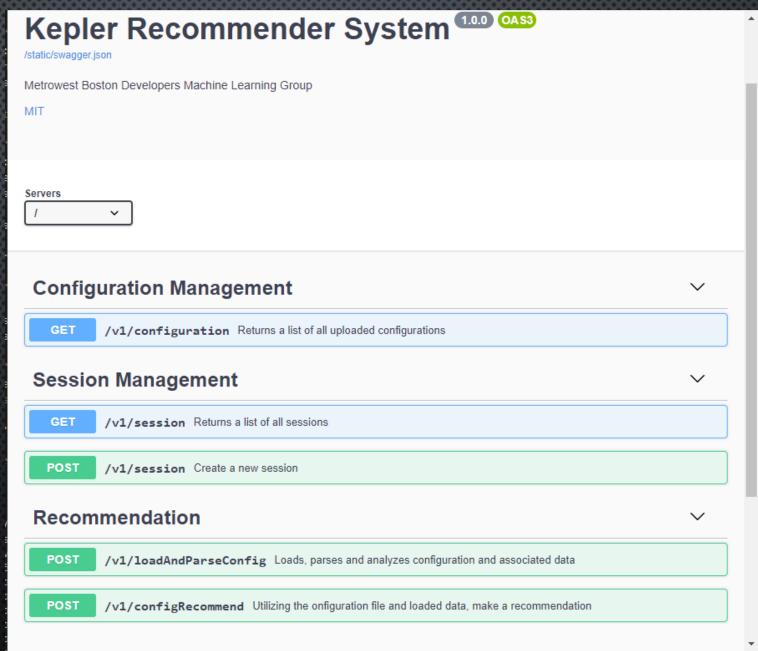
Choose a configuration file: indan_movies.cfg Select Configuration is parsed without errors. The analysis is complete. Ready to recommend!

Enter title to recommend: Delhi Recommend!

Name

	Movie_ID	Name	Genres
848	tt1610418	Prem Kaa Game	[Comedy, Drama]
472	tt10635372	Dee Saturday Night	[Drama]
672	tt1680317	Will You Marry Me	[Drama]
239	tt7881528	Babuji Ek Ticket Bambai	[Comedy, Drama]
902	tt1610452	Band Baaja Baaraat	[Comedy, Drama, Romance]
600	tt2814372	Gippi	[Comedy, Drama]
662	tt2229848	Chashme Baddoor	[Comedy, Drama]
459	tt3426144	Babloo Happy Hai	[Comedy, Drama, Romance]
93	tt6588966	Hichki	[Comedy, Drama]
286	tt5456810	Murari the Mad Gentleman	[Comedy, Drama]
514	tt3359290	Bobby Jasoos	[Comedy, Drama, Thriller]
762	tt1363125	Naughty @ 40	[Comedy, Drama]
332	tt3862004	Fuddu	[Comedy, Drama]
754	tt1465488	Happy Husbands	[Comedy, Drama]
829	tt1605778	Toh Baat Pakki!	[Comedy, Drama]
476	tt3614516	Ankhon Dekhi	[Comedy, Drama]
915	tt1714832	Do Dooni Chaar	[Comedy, Drama]

SWAGGER

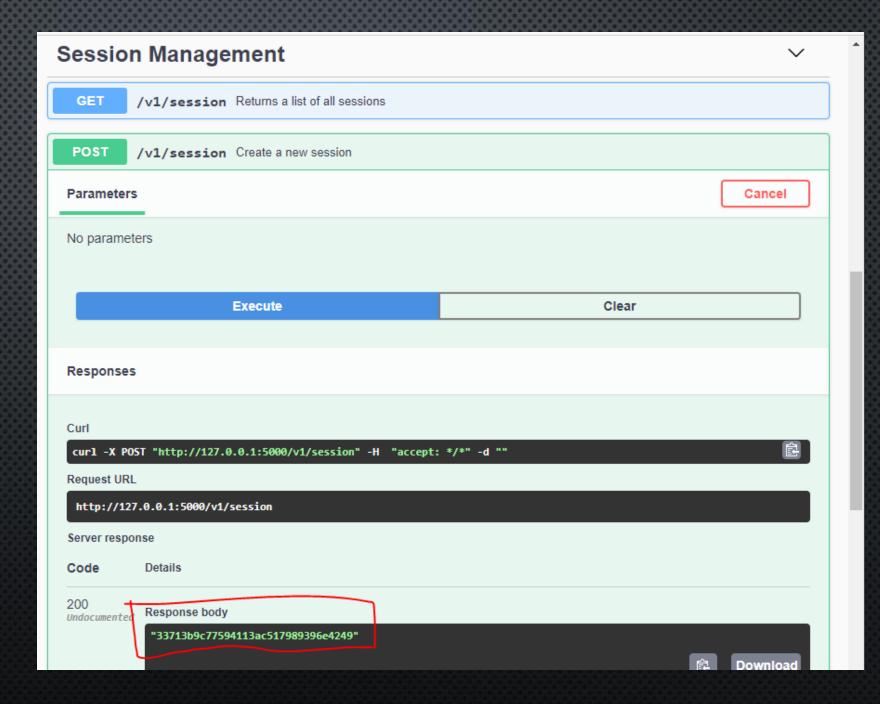


REST AND SESSIONS

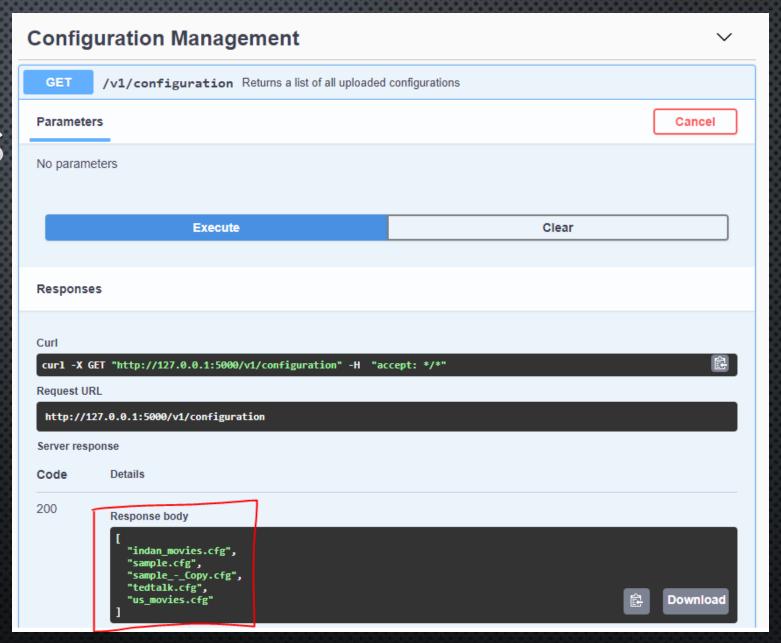
- THE REST PROTOCOL, BASED ON HTTP IS STATELESS.
- The Kepler recommendation engine supports multiple, simultaneous, recommendation configurations. Each contained within its own session.



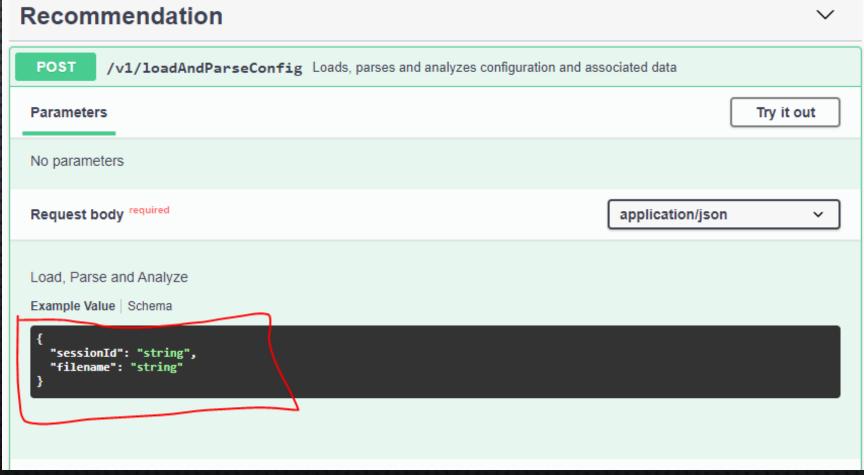
CREATE A SESSION



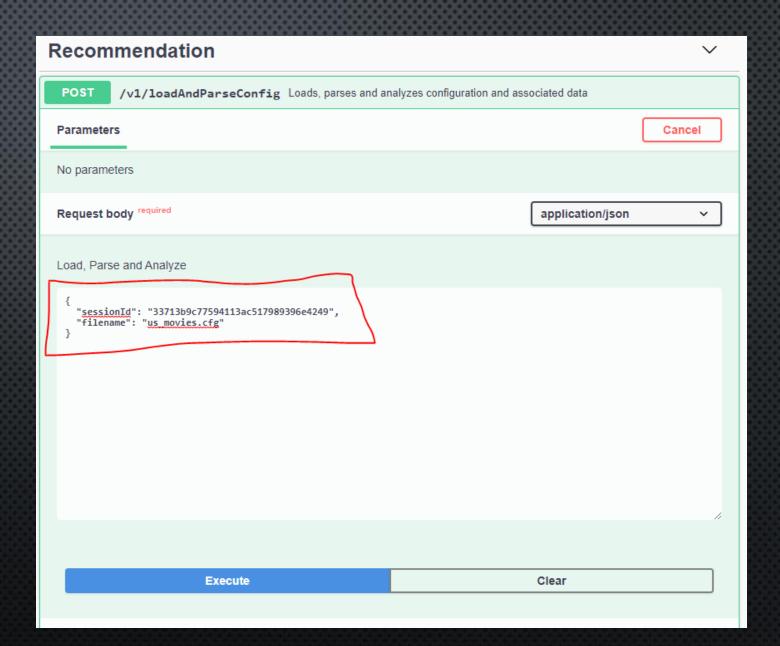
LIST AVAILABLE CONFIGURATIONS



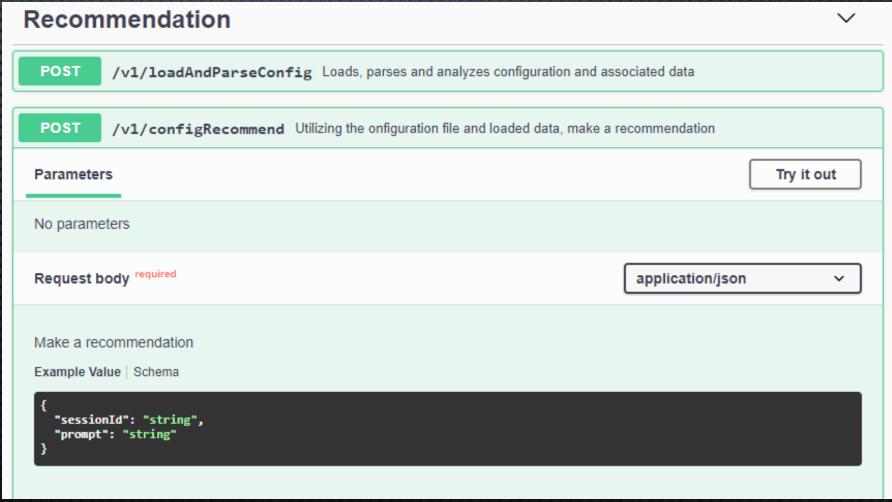
LOAD AND PARSE SCHEMA



LOAD AND PARSE EXAMPLE

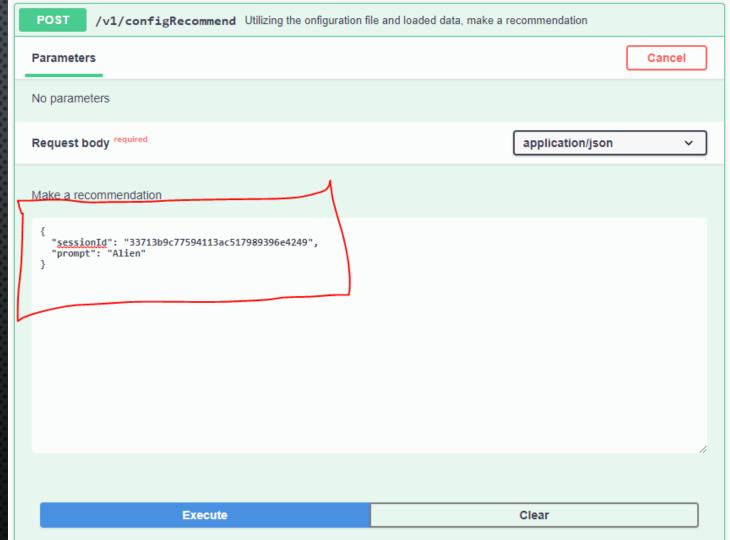


RECOMMENDATION SCHEMA Recommendation



RECOMMENDATION

EXAMPLE



RECOMMENDATION RESULTS

Responses

Curl

curl -X POST "http://127.0.0.1:5000/v1/configRecommend" -H "accept: */*" -H "Content-Type: application/json" -d "
{\"sessionId\":\"33713b9c77594113ac517989396e4249\",\"prompt\":\"Alien\"}"

Request URL

http://127.0.0.1:5000/v1/configRecommend

Server response

Code

Details

200

Undocumented

Response body

```
{"columns":["Movie_ID","Name","Genres"],"index":
[2403,2244,3146,740,3014,218,838,2138,2391,863,1804,2445,1482,3372,1437,4253,0,425,4228,134],"data":
[[679,"Aliens",["Horror","Action","Thriller"]],[77948,"The Cold Light of Day",["Action","Thriller"]],
[10306,"Poltergeist III",["Horror","Thriller"]],[8078,"Alien: Resurrection",["Science
Fiction","Horror","Action"]],[11336,"The Dead Zone",["Horror","Science Fiction","Thriller"]],
[324668,"Jason Bourne",["Action","Thriller"]],[8077,"Alien\u00b3",["Science Fiction","Action","Horror"]],
[1710,"Copycat",["Drama","Thriller"]],[75638,"Red Lights",["Thriller"]],[10375,"D-Tox",
["Action","Thriller"]],[9092,"Snow White: A Tale of Terror",["Fantasy","Horror"]],[79694,"The Apparition",
["Horror","Thriller"]],[71469,"The Darkest Hour",["Horror","Action","Thriller"]],[13006,"Split Second",
["Thriller","Action","Horror"]],[118957,"Bait",["Action","Horror","Thriller"]],[347755,"Wind Walkers",
["Action","Horror","Thriller"]],[19995,"Avatar",["Action","Adventure","Fantasy"]],[954,"Mission:
Impossible",["Adventure","Action","Thriller"]],[323271,"Unsullied",["Thriller","Action","Complete Thriller"]]]]
```

Response headers

content-length: 1208
content-type: text/html; charset=utf-8
date: Wed,28 Apr 2021 00:29:25 GMT
server: Werkzeug/1.0.1 Python/3.9.1