

TECH-A-THONE

PROJECT
PROTOTYPE

PREDICTOR

Movie Prediction App

TEAM NAME
NKG Reactors

MACHINE LEARNING

TEAM DETAILS

TEAM NAME

NKG Reactors

TEAM MEMBERS

01

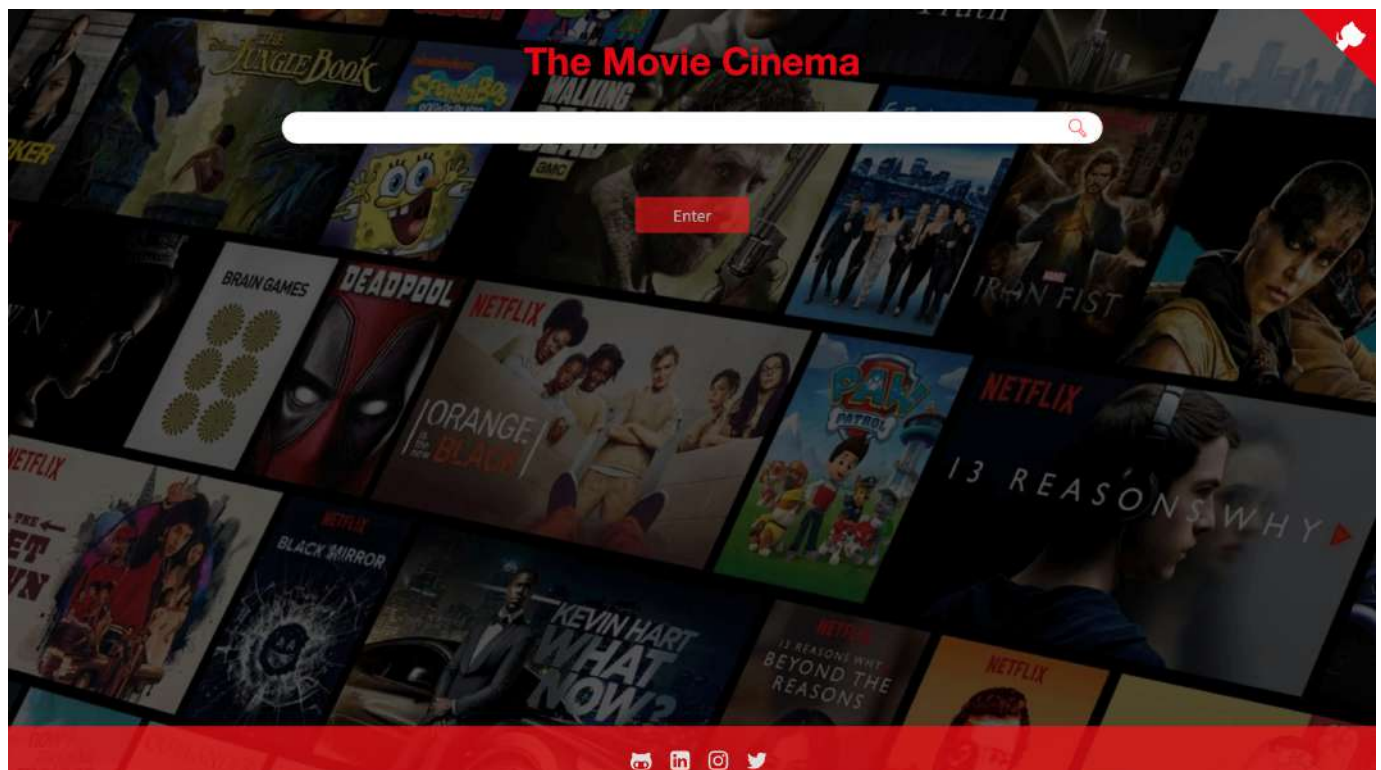
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<https://still-coast-69612.herokuapp.com>

PROJECT DETAILS

DOMAIN

Machine Learning

PROJECT NAME

Predictor - Movie prediction app

THEME

Movie recommendations based on interest

PROBLEM STATEMENT / OBJECTIVE

The project was made for the TECH-A-THON competition. The main objective behind creating this app was to make the life of people a little bit easier by providing an easier way to search for desired movies.

Whenever we watch a movie and like it we always want to see more movies like it and this is the step where we face problems. So we thought to solve this problem and came up with the idea of "**Predictor**" app.

SOLUTION TO THE PROBLEM / OBJECTIVE STATED:

With the help of machine learning and API from themoviedb.org we made our app Predictor. The main function of the app is to recommend movies based on our interest. We have made our UI very simple and user friendly so that people can get what they are looking for. After entering the name of the movie it will show all the details of the movie like its title, overview, rating, genre, cast and even user reviews along with the sentiments. And then there is the main part which is Recommended Movies. In this section list of all the recommended movies related to our given movie will show.

If we don't exactly know the spelling of the movie then also it will show the movie with the help of machine learning. And as we have used the API from themoviedb.org it has tons of movies in the list.



PROJECT DETAILS

DESCRIPTION OF THE PROJECT

This application provides all the details of the requested movie such as overview, genre, release date, rating, runtime, top cast, reviews, recommended movies, etc.

The details of the movies(title, genre, runtime, rating, poster, etc) are fetched using an API by TMDB, <https://www.themoviedb.org/documentation/api>, and using the IMDB id of the movie in the API, I did web scraping to get the reviews given by the user in the IMDB site using beautifulsoup4 and performed sentiment analysis on those reviews.

HOW TO GET THE API KEY

Create an account in <https://www.themoviedb.org>, click on the API link from the left hand sidebar in your account settings and fill all the details to apply for API key. If you are asked for the website URL, just give "NA" if you don't have one. You will see the API key in your API sidebar once your request is approved.

HOW TO RUN THE PROJECT

- 01 Clone this repository in your local system.
- 02 Install all the libraries mentioned in the requirements.txt file with the command `pip install -r requirements.txt`
- 03 Replace YOUR_API_KEY in both the places (line no. 23 and 43) of static/recommend.js file.
- 04 Open your terminal/command prompt from your project directory and run the main.py file by executing the command `python main.py`.
- 05 Go to your browser and type `http://127.0.0.1:5000/` in the address bar.

Hurray! That's it.



PROJECT DETAILS

SOURCES OF THE DATASETS

- IMDB 5000 Movie Dataset
- The Movies Dataset
- List of movies in 2018
- List of movies in 2019
- List of movies in 2020

LINK TO THE CODE IN GITHUB REPOSITORY:

<https://github.com/Abhi6722/Predictor>



Python 3.8 Framework Flask Frontend HTML/CSS/JS API TMDB

Languages



- Jupyter Notebook 83.0%
- HTML 6.7%
- JavaScript 5.8%
- Python 2.4%
- CSS 2.1%

FEASIBILITY AND APPLICABILITY:

USABILITY:

- Search for a Movie and gain knowledge about the movie and its cast.
- Get recommendations for the movies.

SPECIFY FEATURES:

- The main feature of the app is that it shows all the movie recommendations related to our input given.

SCALABILITY:

- This project can actually be used at a product-level scale and can come in handy.
- We can include more filters options which can make searching more extensive.

HOW REALISTIC TO ACHIEVE/MAKE:

- Our app is not just a theoretical idea rather it a full scale app which can be put into production stage and everyone can use it.

ECONOMIC SUSTAINABILITY:

- We have made our app in such a way so that it could be as economical as possible.
- Till now the app is completely build without spending any money as we have used all free resources.

ENVIRONMENT SUSTAINABILITY:

- Our project does not harm environment in any aspect and it totally user friendly as we don't take any information from our user or store their information.

ANY THREAT/RISK/PROBLEM THAT YOU CAN FORESEE?:

- There are always controversies regarding the movie app but this app should not include any risk as we are just using information which are provided in an open to use API source. (<https://www.themoviedb.org>)

ANY IMPROVEMENT IN YOUR PROJECT YOU FORESEE TO IMPLEMENT IN FUTURE:

- We are planning to add some additional features and make it more appealing in terms of UI.
- We are planning to use dialouge flow as a chat bot which will be trained to help users.



APPLICATION SCREENSHOTS

The Movie Cinema

Enter

THE FAST AND THE FURIOUS

TITLE: The Fast and the Furious

OVERVIEW:

Dominic Toretto is a Los Angeles street racer suspected of masterminding a series of big-rig hijackings. When undercover cop Brian O'Conner infiltrates Toretto's iconoclastic crew, he falls for Toretto's sister and must choose a side: the gang or the LAPD.

RATING: 6.9/10 (7,687 votes)

GENRE: Action, Crime, Thriller

RELEASE DATE: Jun 22 2001

RUNTIME: 1 hour(s) 46 min(s)

STATUS: Released

TOP CAST

(Click on the cast to know more)

PAUL WALKER
AS BRIAN O'CONNER

VIN DIESEL
AS DOMINIC TORETTO

MICHELLE RODRIGUEZ
AS LETTY ORTIZ

JORDANA BREWSTER
AS MIA TORETTO

Paul Walker

Paul Walker

Birthday: Sep 12 1973

Place of Birth: Glendale, California, USA

Biography:

Paul William Walker IV (September 12, 1973 – November 30, 2013) was an American actor. He became well known in 1999 after his role in the hit film Varsity Blues. However, he was perhaps best known for starring as Brian O'Conner in The Fast and the Furious series. His other films include Eight Below, Into the Blue, She's All That and Takers.

Close


APPLICATION SCREENSHOTS

USER REVIEWS	
Comments	Sentiments
The most traumatizing installment but very enjoyable none the less! I love so much of the film, the colors, cars, dialogue, and the fun vibes. Such a great movie, it's been many years since I've seen it. The motorcycle gang is such an annoyance to the plot would've been better without them.	Positive : 😊
A mindlessly entertaining film, The Fast and the Furious features fun action, sexy cars and women as well as having some cool characters. Don't go into this film expecting it to engage your brain though or any Fast and Furious film for that matter. Thank you Rob Cohen for starting this franchise!	Positive : 😊
I've been watching the first five movies in the series recently. Must say, all of them are great movies if you're into cars and action. Really not that much to say, lots of action, lots of cars and really entertaining to watch. Actors are/were great, according to me Vin Diesel and Paul Walker are/were great actors. Too bad that Paul Walker is gone now, he was one of the best if not the best actor in the series according to me. Although all the actors were great but Paul was probably my absolute favorite. Very short review, I know, I can't find many bad things to criticize about this movie. Great actors, full of action and lots of awesome cars but not the greatest movie according to me, just a great movie that is entertaining to watch is all I can say really.	Positive : 😊
There aren't many movies over the last dozen years to have a bigger impact on society than this one. The Fast and the Furious glorified street racing and made the Honda Civic and the other cars featured in the film must buys for teenage boys across America. The reason is pretty obvious, the movie is outstanding. The cast of Paul Walker, Vin Diesel, Jordana Brewster, and others is outstanding and the story is really interesting and unique. The plot and characters are all really well developed, creating an immersive viewing experience not often seen in movies under two hours. The cars and race scenes are fantastic and the action has you sitting on the edge of your seat. The only negative for me was some of the cinematic effects. The director tried to get cute and a lot of those effects actually hurt the scenes, not helped. Nonetheless, those few sequences aren't enough to ruin the film and the entertainment value for the movie is still sky high.	Positive : 😊

RECOMMENDED MOVIES FOR YOU

(Click any of the movies to get recommendation)


★ 6.658/10



2009

FAST & FURIOUS


★ 6.432/10



2003

2 FAST 2 FURIOUS


★ 6.359/10



2006

THE FAST AND THE FURIOUS: TOKYO DRIFT


★ 7.25/10




2011

FAST FIVE


★ 6.818/10



★ 7.262/10



★ 6.176/10



★ 6.122/10

