STUDIO GHIBLI CHATBOT – PROJECT REPORT

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1) STUDIO GHIBLI CHATBOT

a. Description

This chatbot is about studio Ghibli movies. It allows you to know general information on studio Ghibli like the list of their movies, what animal species or vehicles are seen in the films or the names of the characters. It also allows you to know specific information about each studio Ghibli movie. For example, you can ask the chatbot for the release time, length, director, original title… of each Studio Ghibli film.

The information used to code the chatbot was found on Studio Ghibli API
https://ghibliapi.herokuapp.com/

b. Setup

The Studio Ghibli Chatbot is coded in Node.js. To use it, just follow these steps :

- You need first to install all the packages required:

$ cd ../movieBot
$ npm install I
$ npm install express

- Start the project with *nodemon server.js*
- Create a Facebook messenger app on Facebook for developer
- Get a token and verify token then copy it in your */development.json*

- Install ngrok

$ npm i ngrok

- Start a ngrok server in your cmd with ngrok http 3000 then create and connect your webhook
- Send a message to your Facebook Page, try "hello" Chatbot is ready !

c. Demonstration

To demonstrate how the chatbot works, we made a demonstration video on YouTube :
https://www.youtube.com/watch?v=z4e8lvSg4-Y

Here are some screenshots showing all the questions you can ask our API :

- **Hello**

hey

Hey, how are you today?

- **List of Studio Ghibli movies**

what can you tell me about studio ghibli's movies?

Here is a complete list of studio ghibli movies! if you want more information about a movie just ask 🙂

Castle in the Sky
Grave of the Fireflies
My Neighbor Totoro
Kiki's Delivery Service
Only Yesterday
Porco Rosso
Pom Poko
Whisper of the Heart
Princess Mononoke
My Neighbors the Yamadas
Spirited Away
The Cat Returns
Howl's Moving Castle
Tales from Earthsea
Ponyo
Arrietty
From Up on Poppy Hill
The Wind Rises
The Tale of the Princess Kaguya
When Marnie Was There
The Red Turtle

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- **Information about a movie :** title - original_title - original_title_romanised - description - director - producer - release_date

give more information about Castle in the sky

Here is the complete list of informations about Castle in the sky movie, enjoy 🙂

id:
2baf70d1-42bb-4437-b551-e5fed5a87abe

title:
Castle in the Sky

original_title:
天空の城ラピュタ

original_title_romanised:
Tenkū no shiro Rapyuta

description:
The orphan Sheeta inherited a mysterious crystal that links her to the mythical sky-kingdom of Laputa. With the help of resourceful Pazu and a rollicking band of sky pirates she makes her way to the ruins of the once-great civilization. Sheeta and Pazu must outwit the evil Muska who plans to use Laputa's science to make himself ruler of the world.

director:
Hayao Miyazaki

producer:
Isao Takahata

release_date:
1986

running_time:
124

- **Specific information**

What's the resume of The Wind Rises?

Here is the resume of The Wind Rises

A lifelong love of flight inspires Japanese aviation engineer Jiro Horikoshi whose storied career includes the creation of the A-6M World War II fighter plane.

release date of From Up on Poppy Hill

Here is the release date of From Up on Poppy Hill

2011

original title of When Marnie Was There

Here is the original title of When Marnie Was There

思い出のマーニー

producer of The Cat Returns

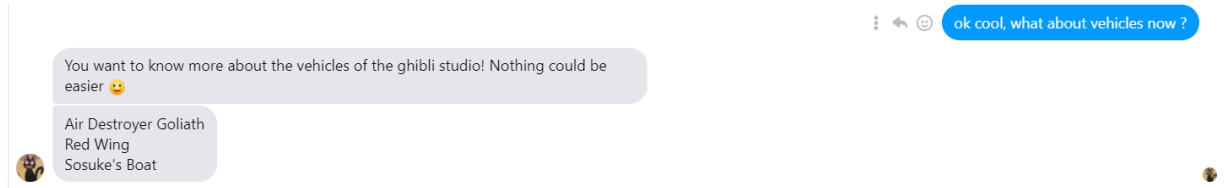Here is the producer of The Cat Returns

Toshio Suzuki

- **Information about animal species in Ghibli movies**

what do you know about species?

You want to know the species of the ghibli studio! Nothing could be easier :

Human
Deer
Spirit
God
Cat
Totoro

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- **Information about vehicles species in Ghibli movies**

> You want to know more about the vehicles of the ghibli studio! Nothing could be easier 🙂
>
> Air Destroyer Goliath
> Red Wing
> Sosuke's Boat

ok cool, what about vehicles now ?

2) ANINE RECOMMENDER

a. How to use it

To use the recommender for our anime chatbot you have to :

- Open either the python file or the .ipynb (collab works well)
- Link the script to the ratings csv and the hhe csv.

Once that is done you have to run the script and follow the guided menu. The recommendation may take quite a bit of time since we are using extremely large amounts of data. The code asks to choose your favourite anime out of ten propositions. It does this 3 times and then it suggests 3 new animes that you could enjoy.

The script retrieves data from the 2 csv files and then links all the animes to the users ratings. Once we have a dictionary with all the users and their ratings on different animes we use collaborative filtering. We took the base from the week six project and adapted it to our anime list. In our project we used the cosine similarity measure which treats missing ratings as negative. This way of measure calculates the similarity between two vectors of an inner product space. It is measured by the cosine of the angle between two vectors and determines whether two vectors and pointing in roughly the same direction.

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b. Demonstration

- **Choosing the favourite proposition out of ten proposition**

```
[0 rows x 73 columns]
selon ces 10 animes lequel tu préfère?
 choisit un index
0: Kimagure Orange☆Road: Ano Hi ni Kaeritai
1: Hokuto no Ken: Raoh Gaiden Ten no Haoh
2: Yahari Ore no Seishun Love Comedy wa Machigatteiru.
3: Detective Conan Magic File 5: Niigata - Tokyo Omiyage Capriccio
4: Sousei no Aquarion
5: Black★Rock Shooter (OVA)
6: Vampire Hunter D
7: Zetsuen no Tempest
8: Rozen Maiden: Träumend
9: Seikai no Danshou: Tanjou
```

```
3
```

```
selon ces 10 animes lequel tu préfère?
 choisit un index
0: Dragon Ball Super
1: Joker Game
2: Tenchi Muyou! in Love
3: Eve no Jikan
4: Haikara-san ga Tooru
5: Rosario to Vampire Capu2
6: Top wo Nerae! Gunbuster
7: Nogizaka Haruka no Himitsu: Finale
8: Love Hina Haru Special: Kimi Sakura Chiru Nakare!!
9: Mobile Suit Gundam II: Soldiers of Sorrow
```

```
0
```

```
un index entre 1 et 10 svp
8
selon ces 10 animes lequel tu préfère?
 choisit un index
0: Blood+
1: One Piece: Adventure of Nebulandia
2: Daicon Opening Animations
3: Kyoukai no Kanata Movie: I&#039;ll Be Here - Kako-hen
4: Bishoujo Senshi Sailor Moon: Sailor Stars - Hero Club
5: Tamako Market
6: Tasogare Otome x Amnesia
7: Ghost in the Shell: Stand Alone Complex - The Laughing Man
8: Biohazard: Damnation
9: Psycho-Pass Movie
1
```

- **The final recommendation based on the user's choices:**

```
nous vous recommendons les series suivantes:
 1) Kuroshitsuji
 2) Kuroshitsuji II
 3) Nabari no Ou
```

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