ML 4

Q) what is an API and how it works?

Ans. API(application programming interface) is a set of rules which makes a link (source of communication) between the two machines .

Some examples of API include cloud application communicating with a server, servers pinging each other , or application interacting with an operating system.

eg→ customer→waiter→chef.....here waiter plays the role of an API and let customer ad chef be the two machines.

TO LINK YOUR API IN PYTHON

1) https://www.themoviedb.org/settings/api → make your own api key here

2) https://developer.themoviedb.org/reference/intro/getting-started → this will display all the content of that particular api through which it has been linked in the form of json

3) https://jsonviewer.stack.hu/ this is the site to view the json file . this converts the json text to the human readable format .

```
import pandas as pd
import requests
response= requests.get("https://api.themoviedb.org/3/movie/top_
df=pd.DataFrame(response.json()['results'])[["id","title","relea
df
```

Framing a machine learning program

1)Transaction Business problem to ML problem : increase our revenue and decrease the churn rate

2) Identify the problem : UI not navigate, internet issue , subscription discount

3) current solution: overall churn rate prediction in last year

4) getting data : required exact date | recommendation click| publish date

5) getting the matrix: follow checkpoints and rectify the correct matrix

6) Online vs Batch ML: focus on our training model and retaining model. OLTP system(online transactional processing) in data warehouse.

real time execution of large number of databases , transaction by large number of people .

7) check assumptions : check one machine learning model work as all condition , region and country .