GETTING STARTED WITH HUGGINGFACE NLP TASKS

11 NLP TASKS THAT YOU CAN PERFORM

OPEN SOURCE

NLP TASKS IN HUGGING FACE

2 INFERENCE METHODS:

LOCAL
INFERENCE

HUGGING FACE
INFERENCE

11 TASKS:

1. CONVERSATIONAL
2. FILL-MASK
3. QUESTION ANSWERING
4. SENTENCE SIMILARITY
5. SUMMARIZATION
6. TABLE QUESTION ANSWERING
7. TEXT CLASSIFICATION
8. TEXT GENERATION
9. TOKEN CLASSIFICATION
10. TRANSLATION
11. ZERO-SHOT CLASSIFICATION

5 STEP LOCAL:

- TASK SELECTION

- MODEL DOWNLOAD

- TOKENIZER DOWNLOAD

- DATA INGESTION

- PREDICTION

5 STEP HF:

- HFTOKEN ACCESS

- TASK SELECTION

- MODEL SELECTION

- DATA INGESTION

- PREDICTION

ALL DONE LOCALLY

DONE AT HUGGINGFACE

THE LIBRARIES AND METHODS

TRANSFORMERS

- PIPELINE CLASS
- MODEL CLASS
- TOKENIZER CLASS

HUGGINGFACE INFERENCE API

1. AUTHORISATION API
2. MODEL URL
3. POST QUERY
4. PARSE OUTPUT

LANGCHAIN HF INFERENCE
(ONLY TEXT GEN / TEXT2TEXT)

1. HUGGINGFACE LLM
2. AUTHORISATION API
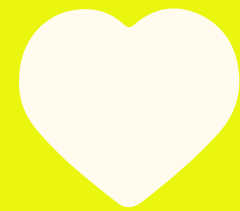3. MODEL REPO/NAME
4. RUN PREDICTION
5. PARSE OUTPUT
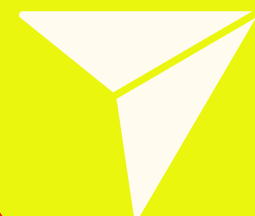
LETS HEAD TO GIT REPO

NOW WE ARE TALKING. PRACTICE???

- TRANSFORMERS PIPELINE WILL DOWNLOAD MODEL + TOKENIZER
- SOME PIPELINE MODELS WILL REQUIRE HIGHER SPEC

- INFERENCE API / LANGCHAIN HUGGING FACE LLM WILL DO INFERENCE ON HF SERVER

insightbuilder/
python_de_learners_data

Repo contains the code, data and supporting documents including presentations, playbooks and additional documents to support learning

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Contributors	Issues	Stars	Forks	

python_de_learners_data/huggingfaceTasks_NLP.ipynb at main · insightbuilder/python_de_learners_data

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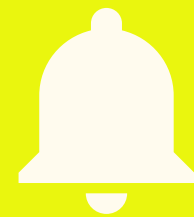
GitHub

THANKS FOR WATCHING

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