GETTING STARTED WITH HUGGINGFACE VISION TASKS

8 VISION TASKS THAT YOU CAN PERFORM

OPEN SOURCE

VISION TASKS IN HUGGING FACE

2 INFERENCE METHODS:

LOCAL INFERENCE

HUGGING FACE INFERENCE

8 TASKS:

1. **DEPTH ESTIMATION**
2. **IMAGE CLASSIFICATION**
3. **IMAGE SEGMENTATION**
4. **IMAGE-TO-TEXT**
5. **OBJECT DETECTION**
6. **VIDEO CLASSIFICATION**
7. **UNCONDITIONAL IMAGE GENERATION**
8. **ZERO-SHOT IMAGE 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

VISION TRANSFORMERS

- PIPELINE CLASS
- MODEL CLASS
- TOKENIZER CLASS

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

HUGGINGFACE INFERENCE API

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

- INFERENCE API WILL DO INFERENCE ON HF SERVER

LETS HEAD TO GIT REPO

NOW WE ARE TALKING. PRACTICE???

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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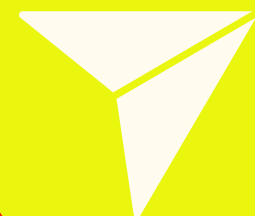
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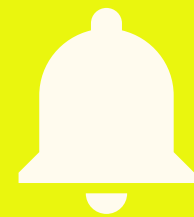
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THANKS FOR WATCHING

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