

CHALLENGE SOLVED: CUSTOMISED MODEL

- 1. OPEN SOURCE MODEL TRAINED ON GENERAL DATA WILL NOT PERFORM WELL IN SPECIFIC ENVIRONMENT/ TASKS
- 2.MODELS CAN BE RE-TRAINED WITH NEW DATASETS WHICH IS THE FORM OF INSTRUCTION AND CORRESPONDING REPLY
- 3. GENERATING SUCH DATASET CAN BE TIME CONSUMING, WHICH IS AUTOMATED USING TXTINSTRUCT
- 4.ONCE GENERATED TRAINING THE MODEL WILL REQUIRE POWER, INFRA INVESTMENT, AND TIME TO TRAIN

GENERAL STEPS TO INSTRUCTION TUNING

- 1. DECIDE ON THE BASE MODEL TO INSTRUCTION TUNE
- 2.DECIDE ON THE TYPE OF INSTRUCTION THE MODEL NEEDS
 TO BE TUNED
- 3.DECIDE ON THE CONTEXT AROUND WHICH THE INSTRUCTION AND CORRESPONDING REPLIES WILL BE GENERATED
- 4. CURATE THE CONTEXT AND CREATE A BASE DATASET
- 5.USE EXISTING TOOLS TO CREATE INSTRUCTION + REPLY
 PAIR DATASET
- 6.USE THAT DATASET TO TUNE THE MODEL

TXTINSTRUCT DATASET CREATION

CONTAINS AN LLM LIKE GPT / FLAN

STATEMENT GENERATOR

GENERATE SOURCE STATEMENT

THE STATEMENT THAT FINAL MODEL WILL NEED TO ANSWER

CONTAINS DATA /
EMBEDDING OF
CONTEXT

KNOWLEDGE SOURCE
FOR CONTEXT

SOURCE STATEMENT IS
GENERATED BY THE LLM
THAT READS THE
CONTEXT PROVIDED TO IT

CONTAINS AN LLM LIKE GPT / FLAN

LLM TRANSLATES
SOURCE TO TARGET
STATEMENT

BASED ON THE TEMPLATES
/ PROMPTS THE TARGET
STATEMENT IS GENERATED

STMT GEN + KNOL SRC

DATASET BUILDER

INSTRUCTOR

EXTRACTOR

LETS PRACTICE

- THE NOTEBOOK IS UPDATED FOR EASIER PRACTICE
- USING OWN EMBEDDINGS IS MADE SIMPLE
- LEARNING THE CONCEPT OF INSTRUCTING THE MODELS REQUIRES VERY LESS TIME
- DATASETS AVAILABLE ELSEWHERE CAN BE EASILY PORTED TO THIS NOTEBOOK
- WORKING WITH DIFFERENT BASE MODELS CAN BE A GOOD EXERCISE, IF YOU HAVE SUFFICIENTLY LARGE WORKSTATION
- MAKING DATASETS IS THE KEY ASPECT OF THE NOTEBOOK.

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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THANKS FOR WATCHING

