

**MASTERING TXTAI  
PIPELINES & AI MODELS**

**16 PIPELINES TO  
STREAMLINE AI MODEL  
USECASES**



# CHALLENGES SOLVED

## 1) SPEECH TO TEXT    3) IMAGE PROCESSING    4) TEXT PROCESSING

- TEXTTOSPEECH
- TRANSCRIPTION
- CAPTION
- IMAGE HASH
- OBJECTS
- SEGMENTATION
- TABULAR
- TEXT EXTRACTION
- ENTITY
- EXTRACTIVE QA
- GENERATOR
- LABELING
- SEQUENCES
- SIMILARITY
- SUMMARY
- TRANSLATION

# KEY TOPICS & BENEFITS

- PIPELINES PROVIDES COMMON ENTRY POINT FOR INPUT
- SWAPPING OUT MODELS ARE SIMPLE
- MOVING THE DATA THROUGH MULTIPLE PIPELINE IS EFFORTLESS
- CAN BE USED AS PYTHON FUNCTION
- CAN BE USED AS CUSTOM FUNCTION WITH SEMANTIC SEARCH WITH SQL QUERY
- USED WITH WORKFLOWS INSIDE TXTAI
- AUTOMATES DATA INGESTION, PROCESSING AND STORING
- OUTPUT IS A GENERATOR WHICH CAN BE EVALUATED WHEN REQUIRED
- ANY TYPE OF UNSTRUCTURED DATA CAN BE FED IF THE APPROPRIATE MODEL / PIPELINE IS INITIATED
- REDUCES THE EFFORT REQUIRED IN BUILDING THE DATA FOR EMBEDDING

# LETS PRACTICE THE TXT USECASES

- NOTEBOOK WILL HAVE EXAMPLES
- INTRODUCING TEXT RELATED PIPELINES
- THE MODELS USED IN EACH PIPELINE
- CAN BE LOOKED UP IN HUGGING FACE
- THE 11 NLP TASKS IN HUGGINGFACE
- DISCUSSED IN ANOTHER VIDEO IS A
- GOOD PRIMER

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

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