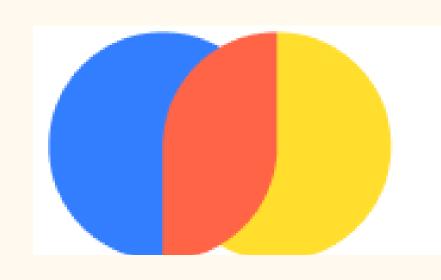
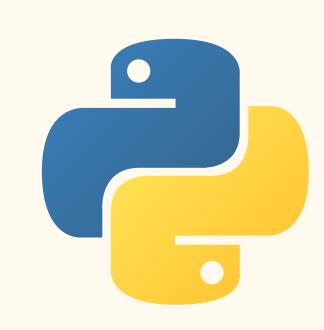
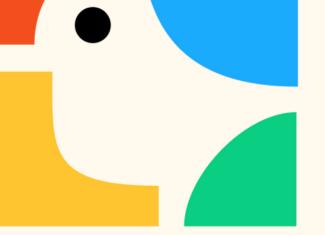
EFFICIENTLY STORE EMBEDDINGS IN CHROMADB WITH TOWHEE





STORE & QUERY EMBEDDING LOCALLY WITH CHROMADB



KEY IS IN UNDERSTANDING ENTITIES

- PIPE MODULE CAN BE USED FOR CREATING THE EMBEDDINGS
- OUTPUT DATAQUEUE IS TYPECASTED TO DATA COLLECTION
- DATACOLLECTION CONTAINS THE ENTITIES THAT ARE CONVERTED TO PYTHON LISTS
- THE LISTS ARE DIRECTLY LOADED INTO CHROMADB

```
IMPORT CHROMADB

CLIENT = CHROMADB.CLIENT()

COLLECTION = CLIENT.CREATE_COLLECTION("TOWHEE_TEST")

INSERT_PIPE = (PIPE.INPUT('DF')

.FLAT_MAP('DF', ('ID', 'ARTICLE_HEAD', 'VEC'), LAMBDA DF: DF.VALUES.TOLIST())

.OUTPUT('ID', 'ARTICLE_HEAD', 'VEC'))

HTTPS://GITHUB.COM/INSIGHTBUILDER
```

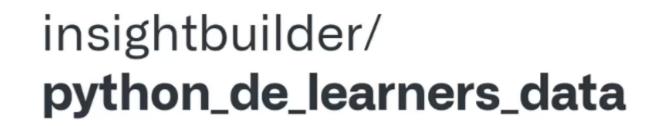
TOWHEE NODES IN ACTION

```
PIPE_W_DATA = INSERT_PIPE(DF[:1000])
                                                        COLLECTION.ADD(IDS=IDS,
PIPE_W_DATALIST = DATACOLLECTION(PIPE_W_DATA).TO_LIST()
                                                                        METADATAS=HEAD_TEXTS,
                                                                        EMBEDDINGS=EMBEDS)
IDS = [STR(ELEM.ID) FOR ELEM IN PIPE_W_DATALIST]
HEAD_TEXTS = [{"TEXT":ELEM.ARTICLE_HEAD} FOR ELEM IN PIPE_W_DATALIST]
EMBEDS = [ELEM.VEC FOR ELEM IN PIPE_W_DATALIST]
SEARCH_PIPE =PIPE.INPUT('QUERY')
.MAP('QUERY', 'VEC', OPS.TEXT_EMBEDDING.DPR(MODEL_NAME="FACEBOOK/DPR-CTX_ENCODER-SINGLE-NQ-
BASE"))
.MAP('VEC', 'METADATAS', LAMBDA X : COLLECTION.QUERY(QUERY_EMBEDDINGS=[X],N_RESULTS=2))
.OUTPUT('QUERY', 'METADATAS')
```

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PRACTICE NOTEBOOK!!!

READING THE CODE IS NEVER ENOUGH TO UNDERSTAND





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

R 2 Contributors

⊙ 0

Issues

☆ 24

Stars

¥ 10 Forks

python_de_learners_data/search_article_towhee_chroma.ipynb at main · insightbuilder/python_de_learners_data

Repo contains the code, data and supporting documents including presentations, playbooks and additional documents to support learning - python de learners data/search article towhee chroma.ipynb at...

(C) GitHub

THANKS FOR WATCHING

