**How to Build ML Solutions? With Python**

Video link: <https://www.youtube.com/watch?v=6qCrvlHRhcM&t=1690s>

2nd video: https://www.youtube.com/watch?v=pJ\_nCklQ65w&t=21s

Polars are just like Pandas in python but they are faster and gaining popularity handling data structures.

Sentence Transformers that have a handful of text embeddings that we can use.

DistanceMetric is used to evaluate the distance between transcriptions.

First Step:

1. Download the requirements.txt file in which all the desired libraries are written and upload in colab.
2. Run the following command in a code cell:

!pip install -r requirements.txt

1. Then run the code in cells by cell.

These are steps implemented in .ipynb after completing python project, now we will deploy this project that code is in Deployment folder.

After creating the deployment folder as specified, write and run the following commands on VS code:

1. PS C:\Users\Hassan 1\Documents\Fatima Data-28april2024\fatima\Self Learning\Data Engineering Projects\Project 4\Deployment of ML project> docker build -t yt-image-search-test .
2. Then write : docker run -d --name yt-search-container-test -p 80:80 yt-image-search-test
3. Now the container is running locally.
4. After that AWS part but AWS account don’t work with me so not mentioned here