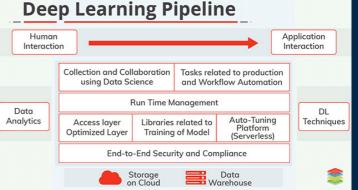
Internship Project

Building an AI pipeline for Image Segmentation and Object Analysis



Segmentation and Object detection

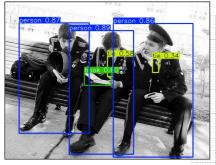




Image Segmentation

Processing the boundaries of detected objects to seperate them from other classes



While we have various options:

I chose
YOLO model (You Only Look Once)

Object detection

Processing of detecting different objects of different classes from one image

After detections



- Opport 3. Mentified as a persons with a confidence of c object 2. Mentified as a person with a confidence of object 3. Mentified as a person with a confidence of of object 3. Mentified as a post with a confidence of of closed 4. Senderfied as a few with a confidence of of closed 5. Mentified as a few with a confidence of of 5. Object 6. Mentified as a few with a confidence of of 5.

Name or Company

- 1. Detecting texts
- 2. Asking AI for summary
- 3. Generating a final output



'50 40', 'बसरुरकर मार्किट BASRURKAR MARKET', 'SPEED LIMIT' Detecting text using EasyOCR

Asking GPT-3.5 Turbo to act as an summarization model

Generating a final output using Matplotlib, and Pandas

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Deploying Streamlit app



Streamlit App:

Streamlit is an framework to make easy to deploy ML apps and publish them online



Deploying App

Our app was uploaded to HuggingFace spaces along with the requirements.txt



Steps

Streamlit goes through the pipeline one by one, and for each model prints the output

'obj_id_bbox': [[320.15216864453125, 170.1173895783125, 337.53436279296875, 233.33160408399625]]), ('object_class': 'tie', 'conf: '0.34', 'obj_id_bbox': [[468.84087896625, 177.38101196289962, 479.0184326171875, 220.14967836914062]])], '/tmp/tmp2igd3j6x/id_model.jpg')

Extracted Text: None

Summarization Model Data: - Object 1: Identified as a person with a confidence of 0.89

- . Object 2: Identified as a person with a confidence of 0.87
- Object 3: Identified as a person with a confidence of 0.86
- Object 4: Identified as a book with a confidence of 0.60
- Object 5: Identified as a tie with a confidence of 0.58
- Object 6: Identified as a tie with a confidence of 0.34

Final Dictionary:

Thank You!

For giving me the opportunity

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