## Panoptic Segmentation using DETR

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## GitHub Repo Link

https://github.com/amanjain487/panoptic-segmentation-using-DETR

## **Detailed Workflow:**

- Gather Images
- Annotate Images
- Get COCO annotation from Facebook DETR
- 4. Merge COCO annotation and construction annotation and create final Category Mapping
- Create Final Dataset
- 6. Create Mask Images for Panoptic Training
- 7. Create Bounding Box Annotation JSON for Object Detection Model
- 8. Create Segmentation Annotation JSON for Panoptic Segmentation Model
- 9. Split Dataset into Train 80% Test 20%
- Build Detection Model
- Train Detection Model
- 12. Apply Different Transformations while Training
- 13. Test Detection Model

- 14. Regularize or Hyper parameterize Model based on Test Results
- 15. Visualize Loss and Accuracy
- 16. Visualize sample Bounding Box Predictions
- 17. Build Segmentation Model
- 18. Train Segmentation Model
- 19. Apply different Transformations while Training
- <del>20.</del> Test Segmentation Model
- 21. Regularize or Hyper parameterize Model based on Test Results
- 22. Visualize Loss and Accuracy
- 23. Visualize sample Panoptic Predictions

## Legends:

Strike Grey Highlighted Text - Completed

Blue Highlighted Bold Text – Currently Going on

Normal Text – Future Work Pending