

Takeaways.md

Project Takeaways

What I Learned

- How CNNs like AlexNet are structured
- How image preprocessing affects model performance
- Dataset handling and augmentation
- Model evaluation techniques

Challenges

- Dataset imbalance
- Overfitting during early epochs
- GPU memory constraints on Colab

Future Improvements

- Try YOLO or Faster R-CNN for real bounding box detection
- Experiment with deeper networks (ResNet, VGG)
- Increase dataset size using augmentation