

Instruction of Deep Learning Project

Coding Part 1 (Duedate: 27/11/2024)

- Library
- Pre-processing
- Pre-trained model
- Visualize Image Result based on pre-trained model
- Evaluate Result based on pre-trained model
- Experiment based on hyperparameter-tuning pre-trained model
- Hyperparameter-tuning
- Visualize Image Result based on hyperparameter-tuning pre-trained model
- Evaluate Result based on hyperparameter-tuning pre-trained model
- Experiment based on hyperparameter-tuning pre-trained model

Coding Part 2 (Duedate: 2/12/2024)

- UI: Image, Video, Real Time

Report Part:

1. Introduction

- Explain the basics of object detection and classification (what it is and how it works).
- Briefly introduce the COCO dataset, its importance, and the types of objects it contains.
- Discuss the concept of bounding boxes and labels used to identify objects in an image.

2. Literature review

- Infinity Possibility

3. Methodology and dataset

- How we pre-processing
- Model Architecture
- Model Training Technique
- Model Evaluation Technique
- Hyperparameter tuning?

4. Result

- Evaluate model result (before hyperparameter tuning and hyperparameter tuning)
- Experiment
- Visualize result (看你们要不要说点东西)

5. Conclusion

6. Limitations

7. Future work

有关问答

1. Introduction 和 Methodology 的dataset介绍有什么区别？

答：introduction就是介绍整个dataset有什么比如包含物体分割，物体检测等等，然后有80个object之类的。而methodology的dataset就是我们如何处理这个dataset，所以这部分将会交给我们处理

2. Methodology 和 Result 的 Hyperparameter tuning可能之后要讨论一下要怎样分割出来写
3. Future work 你能写任何东西，包括但不限于你学到了什么，未来可以如何运用等等之类的
4. Literature Review 我们的内容要讨论一下