

Project Plan of Object Detection in xxx

Jie Li, Meng Shen, Ruihang Wang*
School of Computer Science and Engineering
Nanyang Technological University
Email: {jie006, meng005, ruihang001}@e.ntu.edu.sg

I. PROJECT MOTIVATION

Recently object detection is widely used in various fields, such as autonomous driving, video analytics and object tracking in filming. Thanks to the development of those object recognition techniques, there are many more possibilities in these industries. For example, auto driving could free drivers from fatigue of long distance driving, video analytics helps users detect potential targets with a pretty high accuracy and machines could run 7x24, object tracking assists professional photographers on eyes focus instead of focusing manually, moreover, it also introduces advanced filming skills to ordinary consumers for them to make fancy vlogs easily.

In summary, object detection will and always will be integrated into different industries, and will free users from repetitive works.

II. PROJECT INTRODUCTION

So, in this project, we are going to build a neural network to detect xxx from xxx scenes, which currently is widely used in xxx, additionally, we plan to propose a new approach to xxx to get a better accuracy.

III. EXISTING SOLUTION

So far many researchers have been putting efforts on this domain, before starting this project we also found several approaches, and some of them have got an awesome accuracy, they are YOLO, fast RCNN respectively.

In YOLO's implementation, YOLO employs a xxxx to xxxx, the advantages of xxx is xxx, but there are also some drawbacks, xxx.

As for the second method, fast RCNN xxx, xxx

IV. PROPOSED SOLUTION

According to the above information, we propose to xxx, we are trying to solve xxx problem properly, the estimated result/effecton should be xxx.

V. PROJECT MILESTONES

Project Milestones

A. Data Acquisition & Data Cleaning

Data Acquisition Data Cleaning

B. Apply Deep Learning Methods

Apply Deep Learning Methods

*Authors are sorted by initials.

C. Results Analytics

Results Analytics

VI. CONCLUSION

First, we are going to crawl some data from xxx to support the training process, this should be done before xxx, then we will make some improvements based on the existing neural networks, finally an analytics report and the jupyter notebook will be delivered.

REFERENCES

- [1] S. Kumar, W. L. Hamilton, J. Leskovec, D. Jurafsky, "Community Interaction and Conflict on the Web" 2018.