

PROJECT REPORT
COURSE: ADVANCED PROBLEMS IN COMPUTER SCIENCE

OBJECT DETECTION IN DEEP LEARNING

And their applications in real life

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Abstract

What did I do in a nutshell?

Chapter 1

Introduction

Something to say before dig in the academical knowledge LoL!

1.1 INTRODUCTION TO COMPUTER VISION

What is Computer Vision?

A brief history about CV?

Its role in modern world? Give some evidences of how CV is changing the world?

What is the potential and the challenge in Computer Vision field?

Technical evolution in Computer Vision and the foundations of the evolution?

1.2 WHAT IS OBJECT DETECTION

A statement about Object Detection role in daily problem.

What is Object detection? A concept of Object detection tasks?

1.2.1 Image Classification

A brief explanation about Image Classification.

An approaching methods?

1.2.2 Object Localization

What is Object localization?

An approaching methods?

1.2.3 Object Detection's current achievements

Some current achievements?

Chapter 2

A Classical Approach of Object Detection

Talk about the foundations of modern algorithm in Object Detection nowadays.

Chapter 3

Appearance of Convolutional Neural Network (CNN)

The evolution in Computer Vision for general and Object Detection for specific.

Chapter 4

Discussion

Personal statement about the current trends and future of Object Detection.

4.1 OBJECT DETECTION CURRENT TRENDS

4.2 OBJECT DETECTION IN FUTURE