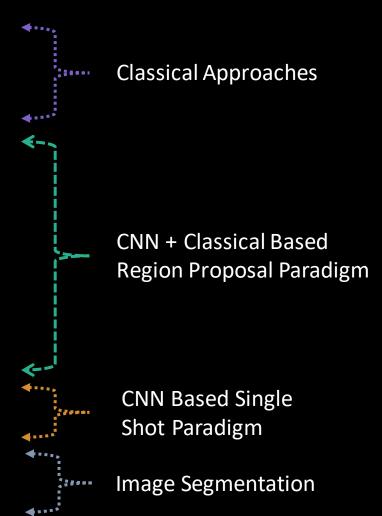
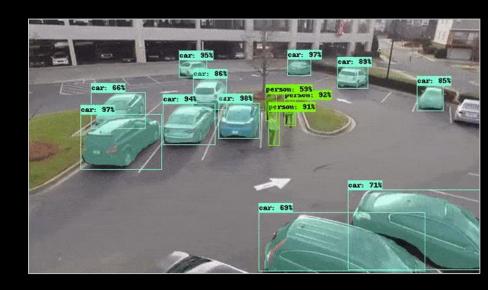
OBJECT DETECTION

Course Introduction

- Understanding Object Detection
- HOG and Sift
- Dalal and Trigs Detector
- DPM
- Over feat network
- Selective search
- Edge boxes
- RCNN
- Special pyramid network
- Fast RCNN
- Faster RCNN
- YOLO
- SSD
- Mask RCN
- Detectron





Course Prerequisite

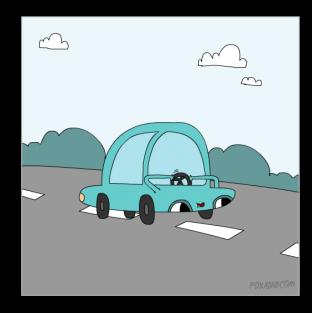
- Python: General Programing
- CNN: Image Classification Basics
- Simple Mathematics



Teaching Methodology

- Try to go into depth of each of the techniques in intuitive way rather than only showing mathematical aspects.
- We will try to reasoning each of the technique such a way we can understand why that technique come into first place.
- How object detection has evolved over time.

1. Self driving car

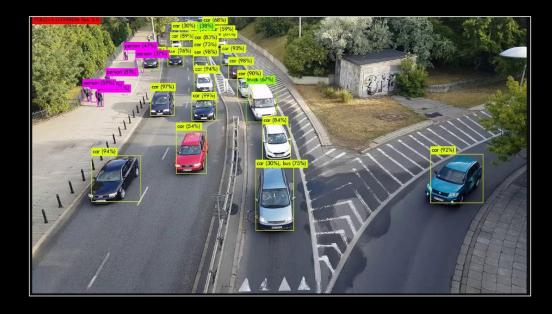




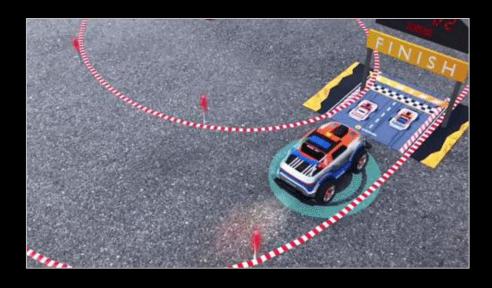
- 1. Self driving car
- 2. Face detection and recognition



- 1. Self driving car
- 2. Face detection and recognition
- 3. Traffic Detection



- 1. Self driving car
- 2. Face detection and recognition
- 3. Traffic Detection
- 4. Tracking Objects

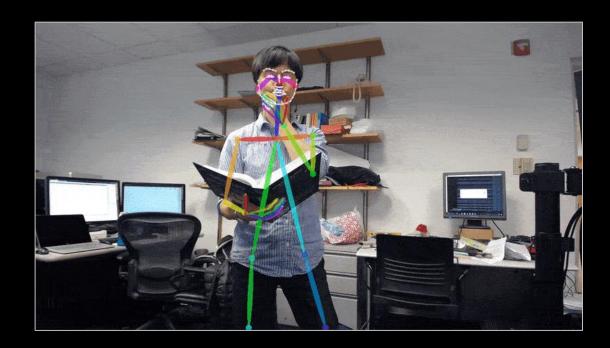




- 1. Self driving car
- 2. Face detection and recognition
- 3. Traffic Detection
- 4. Tracking Objects
- 5. Manufacturing industry



- 1. Self driving car
- 2. Face detection and recognition
- 3. Traffic Detection
- 4. Tracking Objects
- 5. Manufacturing industry
- 6. Pose Detection or Key point Detection
- 7. Counting objects
- 8. Video surveillance and many more..



Projects: End to End

- Covid Mask Detection + Distance measurement system
- Car Game Object Detection
- Student Attendance System
- General Object Detection in public
- Airbnb's Amenity Detection
- Case Study