Slide 1 : Lady and gentle man

Today, I will talk about the topic of license plate identification

The reason I chose this topic

Because It is used to many things in life

For example : it use to charge at the parking lot, help the police determine the location, the time of vehicle do the accident in camera …

Slide 2 : how can I do it ?

**My idea :**

* The first : i must have image have a license plate
* The second : i crop the license plate from image
* The third : i convert the text from the license plate image

Slide 3, 4 : look at the slide

Now, I go into detail step by step

Slide 5 : I set up env and install some library as protobuf for window,import cython,cv2 …

Slide 6 : I chose the faster RCNN inception v2 because

It detect the object better than SSD-Mobile net although it do very slow

I run about 350 step with loss function approx 0.05

What is the faster RCNN

Input : you get the image

Ouput : some bounding box with the object are detection in box

In the slide you can see the RPN( Region proposal network)

The image transfer by deep learning DNN to get feature

Slide 7 :

Slide 9 : I use the library tesseract OCR (Optical Character Recognition): version 5.0 to convert the text from image