IMAGE RECOGNITION

ABSTRACT

Image recognition is all about teaching computers to see and understand the pictures the main idea of this is that computers can recognise and divide the object backgrounds and patterns from images**.**

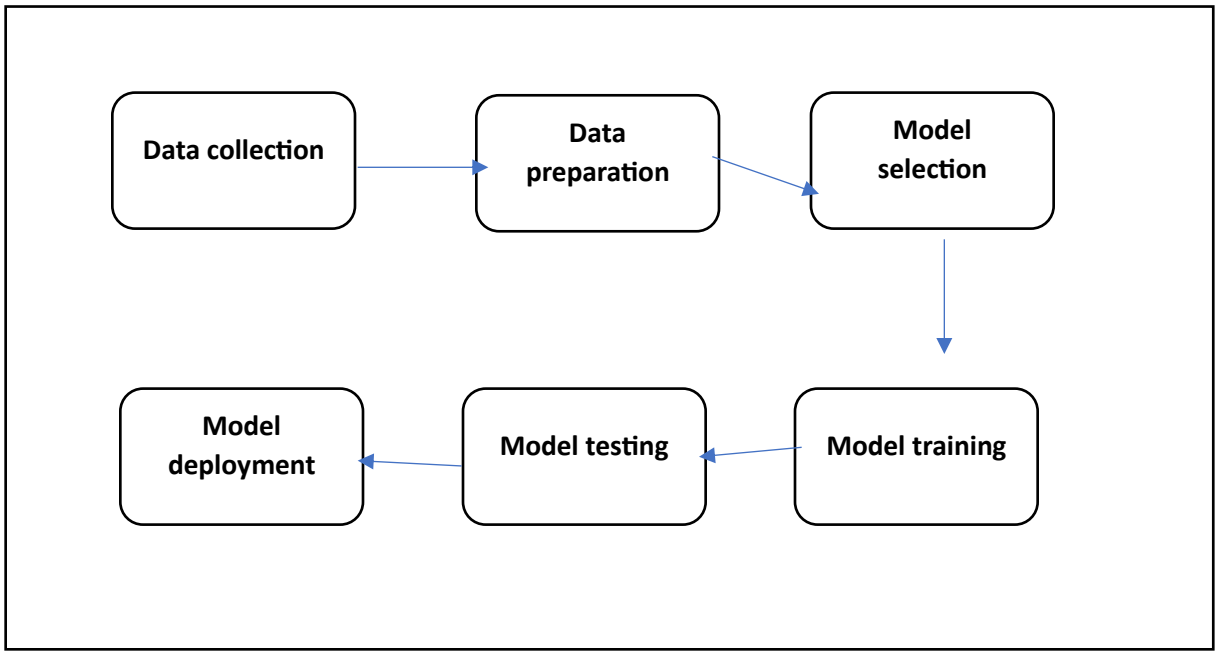
INTRODUCTION

Image recognition is a process which is used to identify objects from the image and divide them in different categories based on the way human recognises the objects from different images machines do not have a capability to recognise the images and objects by themselves like humans do so they need some training over it.

REQUIREMENTS

- Data
- Hardware
- Software
- Tools for image sizing

STEPS FOR IMAGE RECOGNITION



1. Install the required application in the system
2. Collect the data from different resources.
3. Prepare the data which only contains image to organize them.
4. Select a specific model for the data.
5. Select the data to train the model
6. Prepare the model to test the data
7. If the testing is successful then it can be reached to the end user for the use.

Applications of image recognition:

- Facial recognition in smartphones
- Automatic car (to detect the objects like traffic lights, road side direction boards.)
- In medical field for scanning (health care)
- Defence (In helicopters & aeroplanes this system is very important thing to detect the upcoming objects from the image)
- Traffic surveillance cameras

PROBLEM STATEMENTS

- What will normal cameras do if the image is not clear?
- How the system will understand the situation depending on different environment?
- How to track the objects from the video?
- How will the system detect that whether it is specified disease or not in medical field?

The only requirement for these problem statements is Image Recognition system which can contain the solutions in every situation.

CONCLUSION

In conclusion, the overall study represents that image recognition system is mandatory in everywhere, like health care, self-driving cars, security and many other places.