

Image To Code

A dark blue diagonal gradient bar that starts from the bottom left and extends towards the top right, covering the lower half of the image.

Introduction

- Imagine yourself as a doctor in college and you ask your students to write a code for an exam. How are you going to make sure the code can be compiled without errors or run perfectly. It will be hard for you. But not anymore.....
- Image to code project aims to convert images containing handwriting text-code to an actual source file which can be compiled directly.

Project Objectives

- To study a machine learning model for image classification.
- To create the data obtaining text-code.
- To apply a deep learning algorithm (convolutional neural network) for image processing.
- To analyze the results based on the model developed.

Deep Learning Algorithm

Convolutional Neural Network (CNN)

- One of the most popular techniques used in improving the accuracy of image classification
- A special type Neural Networks that works in the same way of a regular neural network except that it has a convolution layer at the beginning.
- It breaks up the image into a number of tiles, then the machine tries to predict what each tile is.
- the computer tries to predict what's in the picture based on the prediction of all the tiles.

