ABSTRACT

In this AI project, we implement one of the fields, namely Computer Vision using the CNN (Convolutional Neural Network) architecture, which is an AI model that can detect an image, examples of its use are object classification in images or object detection in images. The purpose of making the project is to make it easier for students to take attendance during lectures, because it only requires KTM which all students must have. With some of our difficulties in Data Acquisition by collecting student KTM directly so that the dataset we have is limited. From the dataset, a training process is carried out for the CNN model to recognize faces from the dataset. Although there are still errors in the identification, this CNN model can still be developed for accuracy by adding a dataset with a greater number of variations. From this model that has been designed and detrained, which is still in the form of Python Script with Tensorflow, we need to convert the CNN model into TF-Lite for us to deploy in the form of Android Apps using Android Studio.

Keyword : *CNN, TensorFlow, Deteksi, AI, Training Model*