

## **ABSTRACT**

Traditional hawker food is a traditional food that until now still exists that is usually used in traditional events, weddings, and others. Some people consider traditional snacks outdated to switch to modern food. Traditional hawker food is also a legacy of our ancestors and as the Traditional food is a traditional food that is still there which is usually used at traditional events, weddings, and others. Some people think that traditional snacks are outdated and switch to modern food. Traditional street food is also a legacy from our ancestors and the successors of our nation while maintaining and being preserved. Therefore, as technology develops, especially artificial intelligence (AI) has great benefits. One of the branches of AI is Machine Learning. Where to appreciate machines like being able to think like humans. One of the ML approaches is Deep Learning, which is able to do deeper learning.

Deep learning is a part of artificial intelligence and machine learning that can detect speech recognition objects and so on. In the Deep learning system used for object recognition, namely Convolutional network (CNN). CNN compiles several layers, namely Convolutional layer, Pooling layer and Fully Connected layer.

In this study, classifying the types of snacks that exist in Indonesia. By using the method used is transfer learning to retrain CNN to classify images of types of Indonesian snacks, and the output is to get high accuracy values, confusion matrix and few or small resource layers. From the test results, it will get the best results for the values of precision, recall, and f1-score of each of the basic models used.

**Keywords :** Transfer Learning , Deep Learning, Convolutional Neural Network, Machine Learning