**Higher National Diploma in Software Engineering 22.2F**

**Machine Learning for Artificial Intelligence**

**Assessment 4 Report**

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**Introduction**

This report contains the evaluation on the model built on medical records. It includes obtaining medical dataset, creation of the model from guild lines, training, testing and deploying of the model as an API.

Medical dataset used here contents images presenting the drugs. Source of the dataset is (source) and has (relevant classes size of dataset and other).

**Objective**

The target of this project is to train and deploy a machine learning model that has the potential to accurately organize medication. The intention of this model is to come up with an improvement for medical classification.

**Requirement**

Language: Python 3.8

Software: Google Colab

Modules Used: Convolution Neural Network, Tensorflow

**Result**

After training the model we received a certain outcome as 0.14 loss accuracy and the test data were corresponded with the model. The relevant docker file and the .ipynb files are uploaded here.

**Contributions**

COHDSE222F-055 P.K.K.N. Gamage – Docker file and model training, Api calling.

COHDSE222F-026 R.S.G.P Kaveesha – Api calling.

COHDSE222F-048 V.S.J. Rajasingham – Report creation, Model training research

Git link - <https://github.com/Nawoda99/Object-detection-ML>