Lab session 6: Integrating Machine Learning Model in a a Flutter application.

Introduction
In this lab session, you will learn how to integrate Machine Learning Model in Flutter application for Image Classification

Objectives
At the end of this session, students are expected to be able to create a Flutter App integrating a machine learning model.

Deliverables
• A full documentation with Screenshots and descriptions of the Labs
Student Name

Tutorials

Practical -

Task-1

TensorFlow Lite Tutorial for Flutter: Image Classification
https://www.kodeco.com/37077010-tensorflow-lite-tutorial-for-flutter-image-classification
Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.

Task-2

Create an image classification Flutter application using the following
You can choose any fruit or vegetable to classify
Datasets - https://www.kaggle.com/datasets/moltean/fruits
Use the teachable machine web site to train and export your machine learning model TFlite
https://teachablemachine.withgoogle.com/
Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.

Task-3

Create a Flutter app to classify texts
https://developers.google.com/codelabs/classify-texts-flutter-tensorflow-serving#0
Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.

Task-4 – OPTIONAL

Create a Flutter application with Google MLKit
https://codelabs.developers.google.com/codelabs/mlkit-android#0
Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.

Student Notes and feedback

Screenshots

Good Luck!