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

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

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

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| **Deliverables** |
| * A full documentation with Screenshots and descriptions of the Labs |
| **Student Name** |
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**Tutorials**

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**Practical -**

**Task-1**

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| **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**

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| **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**

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| **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**

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| **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.** |

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| **Student Notes and feedback** |
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| **Screenshots** |

