

BSc in Information Technology Specializing Data Science
Semester 02
Lab Exercise 10
IT3071 – Machine Learning and Optimization Methods 2023
Support Vector Machines

- (01) Import the diabetes dataset to the Python environment.
- (02) Split the data into training & testing.
- (03) Fit a Support Vector Classifier model under Support Vector Machines to predict the
Outcome variable using all the predictors.
- (04) Find the prediction accuracy using testing data.
- (05) Instead of the Validation Set approach, using the Cross Validation approach, find the
prediction accuracy using the same SVM model.
- (06) Compare the results obtained in (04) and (05).