# Department of Computing

**CS471: Machine Learning**

**Class: BESE-7AB**

**Lab 08: Support Vector Machine**

**C3: Develop solutions for machine learning.**

**Date: 22-03-2019**

**Time: 10:00 am– 1:00 pm & 2:00 pm-5:00 pm**

**Instructor: Dr. Pakeeza Akram**

**Lab 08:** **Support Vector Machines (SVM)**

**Introduction**

Support Vector Machine is a powerful tool and a state of art algorithm in machine learning.

<https://towardsdatascience.com/support-vector-machine-introduction-to-machine-learning-algorithms-934a444fca47>

**Objectives**

Understanding the implementation of the SVM for linear and non-linearly separable data

**Tools/Software Requirement**

Python 3, Matplotlib, Numy, Jupyter

**Task Description**

Please see the Jupyter Notebook and open your ipynb file and complete the tasks marked as TODO using the specified data in the file.

**Deliverable**

* Students are required to upload the lab task in solution in .ipynb format on LMS. Please note you are required to do all tasks.
* The file name must contain your name and CMS ID in the following format. <Lab03\_your CMS ID\_your name.ipynb>