CSL5402   Artificial Intelligence Lab

Lab 7 Assignment

List of Experiments:

1. WAP to classify the type of flower. The features of the flower type are given in the iris dataset format. To perform this task, student can only use SVM classifier. Report the accuracy difference between different kernals (Poly, linear, RBF) on iris dataset.

sepal_length	sepal_width	petal_length	petal_width	plant
1.1	1.2	1.3	1.4	?
4.1	3.1	2.1	1.1	?

2. WAP to classify the purchase of a social media user with feature such as:

User ID	Gender	Age	Estimated_Salary	Purchased
12345678	Female	82	1900000	?
12345679	Male	78	20	?

The dataset is in social_adv format and student should only use SVM classifier. Report the classification result with Poly and RBF kernel.

Upload the complete python code file.

Format of SUBMISSION (YOURROLLNO_ASSIGNMENTNO_COURSECODE.pdf and YOURROLLNO_ASSIGNMENTNO_COURSECODE.ipynb). You have to submit your assignment in both the format (.pdf and .ipynb). Example: If your roll number is 1906005, then write 1906005_1_CSL5402.pdf for assignment number 1. For assignment number 2, write 1906005_2_CSL5402.pdf.