

COMSATS University Islamabad, Lahore Campus
Department of Electrical and Computer Engineering
M. A. Jinnah Campus, Lahore.

CSC462 - Artificial Intelligence

Total Marks 20

Assignment 4

Resource Person: Dr. Muhammad Farooq-i-Azam

Problem 1 **(20)**

The submitted project will comprise of the following components:

1. Written Report
2. Python Code
3. Dataset
4. Presentation (7 to 10 slides)

Written Report

- (a) Describe the problem that you have chosen as your project in a clear manner.
- (b) Describe the dataset you have selected. For example, explain all the features, the number of the data points, source of the data set and the reason you have selected the dataset.
- (c) Explain the machine learning algorithm that you have selected for the project. Justify the selection of the learning algorithm.
- (d) The written report should include the performance evaluation results.

Python Code

- (a) Write a Python program for the project. The code should be clean and well commented.
- (b) Use suitable accuracy metrics for the performance evaluation of the learning algorithm.

Presentation

- Slide 1. Title
- Slide 2. Introduction and problem description
- Slide 3. Dataset description
- Slide 4. Algorithm description
- Slide 5. Results
- Slide 6. Analysis
- Slide 7. Summary and conclusion

Submission

Following six files should be submitted:

- (1) Written Report – DOCX
- (2) Written Report – PDF
- (3) Python Code -- .py file
- (4) Dataset
- (5) Presentation PPTX
- (6) Presentation PDF

Compress all three files in a single ZIP folder for submission. If the dataset comprises of multiple files, compress it first in a single ZIP file before adding it to the main ZIP folder.

Submit your work in the compressed .ZIP file on CUonline. DO NOT use compression technique other than ZIP.

Copied work will be penalized and may be awarded zero marks.