

Task 1

- 12.5 There is no Perceptron classifier
- 12.5 There is no SVM classifier (Linear, non-linear)
- 12.5 There is no DT classifier
- 12.5 There is no K-NN classifier

Task 2

- 6 Hardcoded second dataset (I may test your program using different datasets, with same format as those mentioned for the task (e.g., numbers, with classes in last column).)
- 2 Does not use the scikit-learn library to load the digits dataset (* you can use an extra argument to indicate your program when the dataset comes from a file, or when is a scikit-learn dataset)
- 1 no error checking for classifier argument
- 1 no error checking for dataset argument
- 6 The number of rows/columns for X does not match the number of rows/features in the dataset. (for example, iris has 4 features, so X also needs to have these 4 values)(If for some reason you use less features you need to properly justify it)

Task 3

- This task asks you to "Properly analyze the classifiers' behavior", although it is not explicitly stated, it is understood that to perform an analysis you have to make comparisons with different values for the parameters (for example, different values of K for KNN, or different values for minimum number of samples required to split an internal node for DT, etc.). Therefore, it is expected a document with the results of your analysis (PDF is preferred).
- 5 No accuracy output for the training data
 - 5 No accuracy output for testing data
 - 5 No running time output for the training
 - * Up to 70% of deduction for the whole task if you use figures without any explanation of what the figure is showing

Task 4

- 5 No answer for the pre-prune and post-prune strategies
- 5 No answer for the repository file, and lines of code for strategy 1
- 5 No answer for the repository file, and lines of code for strategy 2

Additional General deductions

- 1 no main.py
- 5 No readme.txt file
- 1 The second dataset was not included in the zip file
- 2 Your code is not properly organized with .py files for each classifier
- 5 The command written in the readme file does not work as it is written (i.e., a common mistake is to call your script (or dataset) with a different name than the one you submitted)
- 5 no .zip file with the HW files
- 5 The program throws errors that need to be fixed (i.e., a common mistake is not to write plt.show())
- 10 For each day of late submission