

CS5787 Homework 0

Iris Flowers

Xiran Sun, Ang Zhou

08/28/2018

I. Problem Statement

- a. How many feature/attributes are there per sample?

Answer: There are 4 features/attributes per sample. (4 features + 1 label)

- b. How many different species are there?

Answer: There are 3 different species.

- c. How many samples of each species did Anderson record?

Answer: 50 samples per species.

II. Program Idea Statement

*program is attached in the zip.file

- a. Import the txt file:

- i. Open the file, parse each line, and append them into two arrays (2D-array for storing features data, labels array for storing labels data).
- ii. Parse data from string to float number
- iii. Note that the last line is an empty line, check if it is the last line

- b. Plots based on all pairs of features:

- i. Build a colors array representing the different labels for plots
- ii. Build a feature array for storing vectors for each features
- iii. Build a 4*4 subplot, iterate through the position and plot the graphs

(Graphs are on the next page.)

III. Showing Graphs

