Carnegie Mellon University
Africa

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28/08/2024

COURSE 18-785: DATA, INFERENCE & APPLIED MACHINE LEARNING

ASSIGNMENT 1

Nchofon Tagha Ghogomu

ntaghagh

September 2, 2024

Carnegie Mellon University
Africa

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Introduction

This document contains information about the process and tools used to arrive on the report of Assignment 0 of Course 18-875

A) Technical Setup

I completed the following tasks to complete this assignment:

- Installed and set up python (Python 3.12.4)
- Installed and set up Jupyter Notebook.

B) Coding

Python was used as the programming language used to execute these tasks in this assignment. No special library was used to program.

C) Definition of constants

Some research was done to have an in-depth understanding of the importance of $\pi, e, and\ \varphi$.

D) Results:

- Printing Hello Data Inference and Applied Machine Learning

Hello Data Inference and Applied Machine Learning

- sum = (pi + e + phi)

7.4779

E) Conclusion

In this assignment, I set up the integrated development environment, wrote code as directed in the assignments and arrived on the results in this folder here submitted.

CARNEGIE MELLON UNIVERSITY
DATA, INFERENCE & APPLIED MACHINE LEARNING (COURSE 18-785)
ASSIGNMENT 0

INSTRUCTIONS

- Submissions should be made via canvas.
- **Single** Python/MATLAB code file(.ipynb or .m) **[Do not Submit checkpoints for .ipynb].** In addition, each line of code should be documented by text. This demonstrates that the code is unique and owned by the student
- Assignment report(.pdf) with full evidence that the assignment was completed by the student and demonstrate a full understanding of each step in the process including textual descriptions of each result (statistics, table, graph etc) represents and insights that can be gained
- Indicate the libraries you have used in your code at the beginning of the report (After the title page)
- Using ChatGPT for any assignment is not allowed as it could lead to being flagged for plagiarism.
- Data files (as given)

Submission process:

1. Put source code **file and data files** in a single folder
2. Name of the folder should be the same as your Andrew ID
3. **Zip this folder and attach the zipped file on assignment submission page (CANVAS)**
4. After attaching zipped file, click on "Add Another File" from assignment submission page and **attach your report**
5. Submit your assignment

N.B. This new process will allow us to compile your reports in **Turnitin** to check for plagiarism.

Specific reasons for a submission being classified as incomplete include:

- Failure to correctly name your folder with your Andrew ID
- Failure to correctly name your report, and code file with andrewID_DIAML_AssignmentNo. For example, mcsharry_DIAML_Assignment1, mcsharry_DIAML_Assignment2 and mcsharry_DIAML_Assignment3.
- A missing report describing the steps, results, and insights
- A missing dataset required for running the code
- A missing code file such as .ipynb or .m file
- An error in the file path needed to run the code

The student is responsible for checking that their submission is complete. Students will lose 10% as for usual late submission even if the submission is repaired during the 24 hours after the deadline has passed, and receive 0 for the assignment if it is not repaired.

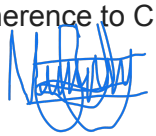
The submission deadline is **Eastern Time (ET) on Friday 30, August 2024, 17:59**

Rwandan Time (CAT) on Friday 30, August 2024, 23:59.

QUESTIONS

1. Submit the report document with a signed agreement stating the following.

I, the undersigned, have read the entire syllabus for course 18-785 (Data Inference and Applied Machine Learning). I agree with the terms and conditions of participating in this course, including adherence to CMU's AIV policy.

Signature: 

Andrew ID: ntaghagh

Full Name: NCHOFON TAGHA GHOGOMU

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2. Submit your source code file which does the following:

- Prints out "Hello Data Inference and Applied Machine Learning"
- Defines the values of three famous mathematical constants and describes their relevance: pi, Euler's constant (e) and the Golden Ratio (phi). The description should be inserted as comments
- The final part of the code should print out the sum of the three constants.