Spring 2022: CSEE5590/490 – Special Topics

Python and Deep Learning - ICP-1

Lesson Overview:

In this lesson, we will focus on installation and making one familiar with python programming concepts.

Use Case Description:

- 1. Hello World
- 2. Add two numbers
- 3. Basic operations
- 4. Basic for loop

Programming elements:

Python Features, Applications, Installation, Python version, Data types, Operators, Conditional Statements

In class programming:

Note: Code quality (in terms of time and space complexity) is highly valued

- 1. State differences between Python 2 and Python 3 version.
- 2. Write a python program for the following:
- Input the string "Python" as a list of characters from console, delete at least 2 characters, reverse the resultant string, and print it.

Sample input:

- python
- •Sample output:
- ntyp
- Take two numbers from user and perform arithmetic operations on them.
- Ask user for a list of names, add these names to a list:
 - o Print the length of the list.
 - o Add new name to the list.
 - Print the list
- 3. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons' without using regex
 - •Sample input:
 - •I love playing with python
 - •Sample output:
 - •I love playing with pythons

** Follow the IPC rubric guidelines.

Submission Guidelines:

- 1. Once finished present your work to TA during class time.
- 2. Once evaluated submit your source code and documentation to GitHub and represent the work in a ReadMe file properly (short summary for the ICP).

After class submission:

- 1. Complete your work and submit to your repo before the deadline.
- 2. Record a short video $(2\sim4)$ minute, explaining the technical part and method used.
- 3. Add video link to ReadMe file.

Note: Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy. See detailed description of university policy at the following URL: https://catalog.umkc.edu/special-notices/academic-honesty/