AIDI-2004: Artificial Intelligence in Enterprise Systems

Lab #2 – Enterprise Cloud Computing

Value: 10%

Due: Friday, Feb 19, 2021

Introduction:

You have learned about cloud technologies. In this lab, you will have hands-on experience in various cloud technologies.

Instructions:

Step 1: Marks: 10

Create user accounts in Google, AWS and Azure platform

Step 2:

Review key features of these Platform and select one of them as your working platform. Justify your selection. Marks: 10

Step 3: Marks: 10

Configure a virtual machine (VM) in your selected platform

Step 4: Marks: 10

Run your VM and create a folder in your machine.

Step 5: Marks: 10

Write a basic python program to perform basic math operations of two variables and save that program in the folder

Step 6: Marks: 10

Create a repo in your remote git host

Step 7: Marks: 10

Push your new code in that repo

Step 8: Marks: 10

If AWS is your cloud, navigate to your SageMaker and create a Notebook instance in SageMaker.
If you are not using AWS, Navigate to Google Colab

Step 9: Marks: 10

Create Jupyter Notebook in SageMaker/ Google Colab
Perform basic math operations in the notebook

Step 10: Marks: 10

Upload your notebook in your git repo

Submission:

Submit a report identifying all the activities in DC connect.

This assignment relates to the following Course Learning Outcomes:

CLO-2: Write industry standard code and use git to work in agile environment for developing enterprise AI products

CLO-4: Perform various analysis using enterprise cloud solutions such as AWS, Google and Azure Cloud services

CLO-6: Develop and deploy Enterprise AI solution pipeline using various technologies (i.e., Local, Dockers, Heroku or cloud)