DAILY ONLINE ACTIVITIES SUMMARY

Date:	19 May 2020	Name:	Asha Rudrappa Totagi
Sem & Sec	6th sem & A sec	USN:	4AL17CS015

Online Test Summary

Subject	Computer Graphics and Visualization		
Max. Marks	60	Score	55

Certification Course Summary

Course	Machine Learning with python		
Certificate Provider	Congnitive Class	Duration	6 hours

Coding Challenges

1.Problem Statement:1.We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome
For example we take "S": S will be the shortest palindrome string.
If we take "xyz": zyxyz will be the shortest palindrome string
So we need to add some characters to the given string or character and find out what will be the shortest palindrome string by using simple java program

2.Write a simple code to identify given linked list is palindrome or not by using stack.
First take a Stack. Traverse through each node of the linked list and push each node value to Stack.
Once the traversal & copying is done, iterate through linked list from head node again.
In each iteration, pop one stack element and compare with node value in respective iteration. It is expected to match stack popped value with node value.
In case of all matches, its a palindrome. Any one element mismatch makes it not a palindrome.

3.3.A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints "yes" if either the first string is a sub sequence of the second string or the second string is a sub sequence of the first string.
Assume that, the length of the first string is smaller than or equal to the length of the second string.

Status: DONE

Uploaded the report in Github	**YES**
If yes Repository name	**Daily Status**
Uploaded the report in slack	

Online Test Details: (Attach the snapshot and briefly write the report for the same)

CGV IA test was held today i.e 19 May 2020. There were Three rounds where each round carried marks respectively. Out of 60 marks I scored 55
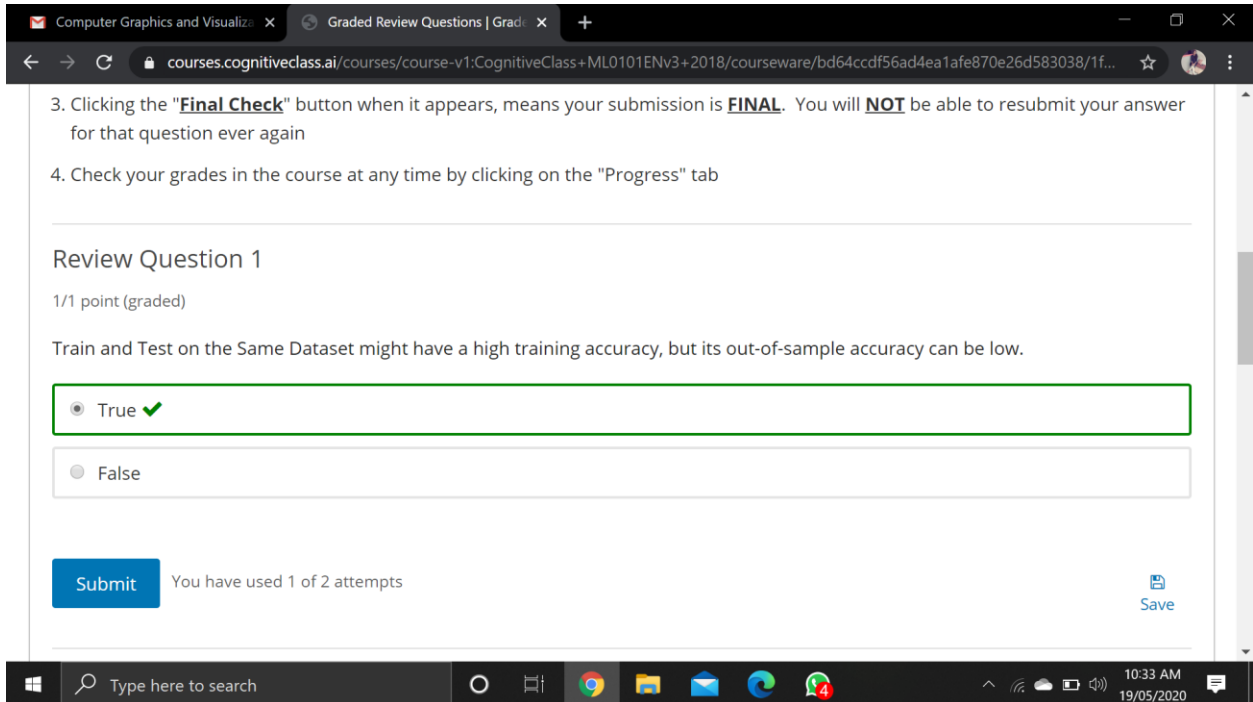
Certification Course Details: (Attach the snapshot and briefly write the report for the same

3. Clicking the "**Final Check**" button when it appears, means your submission is **FINAL**. You will **NOT** be able to resubmit your answer for that question ever again

4. Check your grades in the course at any time by clicking on the "Progress" tab
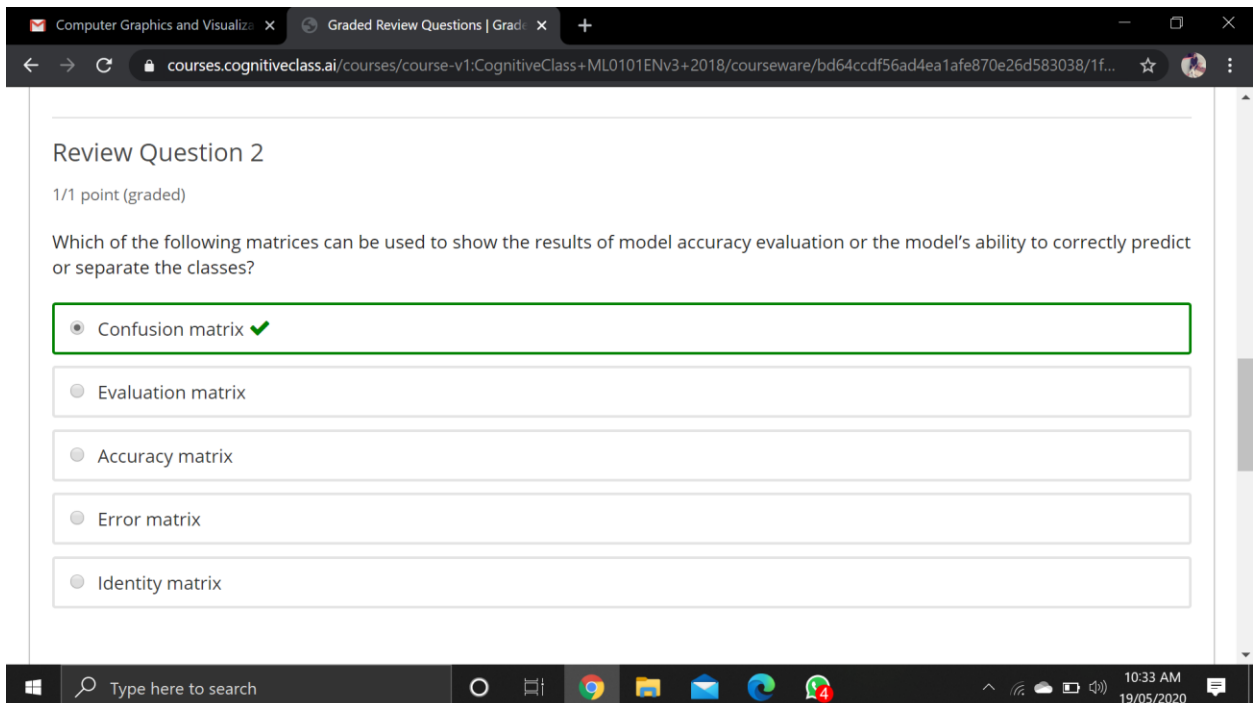
Review Question 1

1/1 point (graded)

Train and Test on the Same Dataset might have a high training accuracy, but its out-of-sample accuracy can be low.

- ◉ True ✔
- ○ False

Submit   You have used 1 of 2 attempts

Save

Review Question 2

1/1 point (graded)

Which of the following matrices can be used to show the results of model accuracy evaluation or the model's ability to correctly predict or separate the classes?

- ◉ Confusion matrix ✔
- ○ Evaluation matrix
- ○ Accuracy matrix
- ○ Error matrix
- ○ Identity matrix

Computer Graphics and Visualiza ✕ | Graded Review Questions | Grad ✕ | +

← → C 🔒 courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/bd64ccdf56ad4ea1afe870e26d583038/1f...

Submit You have used 1 of 2 attempts
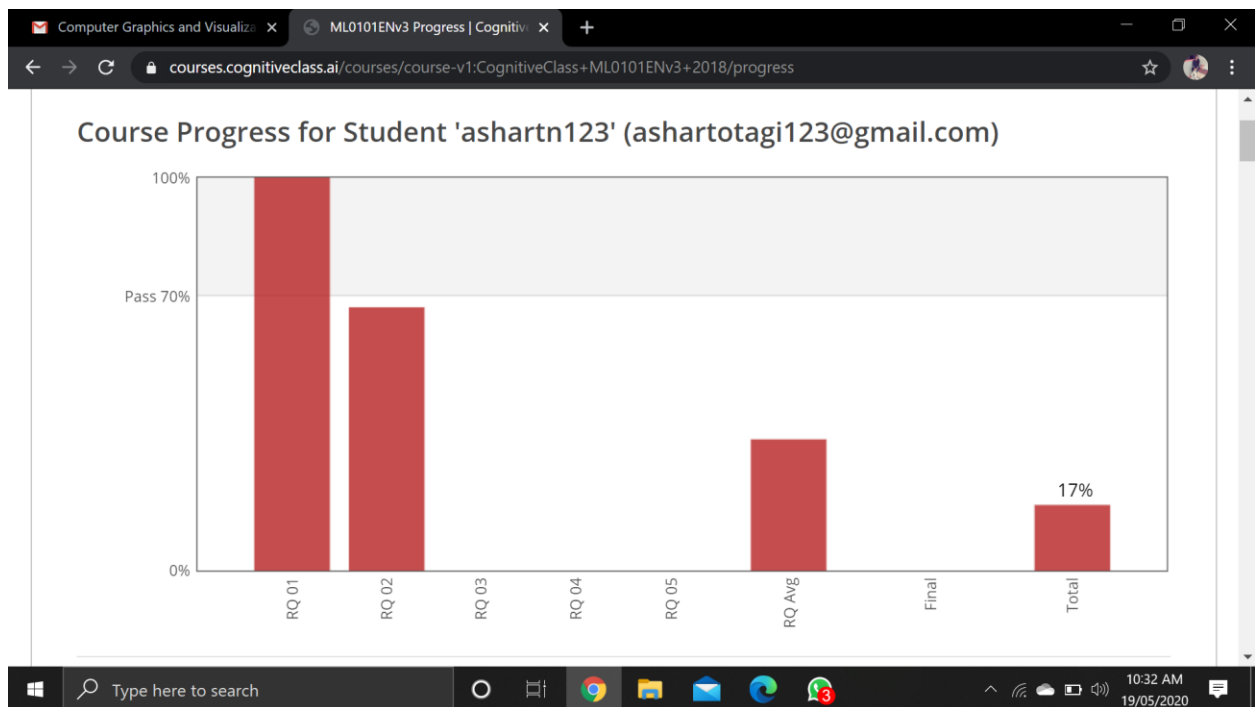
💾 Save

Review Question 3

0/1 point (graded)

When we should use Multiple Linear Regression?

○ When we would like to identify the strength of the effect that the independent variables have on a dependent variable.

◉ When there are multiple dependent variables. ✖

Submit You have used 1 of 1 attempt

Course Progress for Student 'ashartn123' (ashartotagi123@gmail.com)

DAY 2 (19-05-2020)- Introduction to Regression, MODULE 2 Learning objectives Simple ,Linear ,Non Linear Regression, model Evaluation and Evaluation Metrics AND REVIEW QUESTIONS ARE COMPLETED

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Program 1

```java
import java.util.*;

public class Main{

 public static String shortestPalindrome(String str) {

    int x=0;

int y=str.length()-1;

    while(y>=0){

   if(str.charAt(x)==str.charAt(y)){

    x++;

      }

      y--;

 }

 if(x==str.length())

return str;

 String suffix = str.substring(x);

String prefix = new StringBuilder(suffix).reverse().toString();

String mid = shortestPalindrome(str.substring(0, x));

 return prefix+mid+suffix;

}

 public static void main(String[] args) {
```

```java
Scanner in = new Scanner(System.in);

System.out.println("Enter a String to find out shortest palindrome");

String str=in.nextLine();

System.out.println("Shortest palindrome of "+str+" is "+shortestPalindrome(str)) } }
```

Program 2

```java
import java.util.Stack;

public class Main {

public static void main(String[] a){

Node n1 = new Node(10);

    Node n2 = new Node(28);

    Node n3 = new Node(15);

    Node n4 = new Node(29);

    Node n5 = new Node(10);

    n1.next = n2;

    n2.next = n3;

    n3.next = n4;

    n4.next = n5;

    boolean result = isPalindrome(n1);

    System.out.println("Is it palindrome: "+result);

  }

static class Node {

    int data;

    Node next;

    Node(int tmp) {
```

```java
            data = tmp;

        }

    }


    static boolean isPalindrome(Node head) {

Node tempNode = head;

        Stack<Integer> stack = new Stack<Integer>();

        while(tempNode != null) {

            stack.push(tempNode.data);

            tempNode = tempNode.next;

        }

        while(head != null) {

            if(head.data != stack.pop()) {

                return Boolean.FALSE;

            }

            head = head.next;

        }

return Boolean.TRUE; } }
```

Program 3

Input the first string
tree
Input the second string
Computer science is awesome
YES


```c
#include <stdio.h>
#include <string.h>
int check_subsequence (char [], char[]);

int main () {
  int flag;
  char s1[1000], s2[1000];

  printf("Input first string\n");
  gets(s1);

  printf("Input second string\n");
  gets(s2);

  if (strlen(s1) < strlen(s2))
    flag = check_subsequence(s1, s2);
  else
    flag = check_subsequence(s2, s1);

  if (flag)
    printf("YES\n");
  else
    printf("NO\n");

  return 0;
}

int check_subsequence (char a[], char b[]) {
  int c, d;

  c = d = 0;

  while (a[c] != '\0') {
    while ((a[c] != b[d]) && b[d] != '\0') {
      d++;
    }
```

```c
    if (b[d] == '\0')
      break;
    d++;
    c++;
  }
  if (a[c] == '\0')
    return 1;
  else
    return 0;
}
```