AI. ASSESSMENT MCQ quesrions:

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1 B. 19/59 (correct answer)

2 B. False positive

3 c

4 (D) θ0=0,θ1=0.5

5 (C) Statement 1 and Statement 4 are correct

6 (D) Statement 2 and Statement 3 are correct

7 (C) Statement 1 and Statement 2 are correct

8 (D) Random forest

9 (D) All of the above

10 (C) Both A and B

11 (A) Normalize the data -> PCA -> training

12 (D) All of the above

13 (C) Both A and B

14(D) None of the above

15(B) Use multiple radom initializations

16(C) 1,2 and 3

17(A) Choose k to be the smallest value so that at least 99% of the varinace is retained

18 (C) a=0.3 is an effective choice of learning rate

19 (D) AND

20 (A) 1/10

21 (D) All

22 (B) Median filter

23 (C) HSV

24 (C) The process of adding layers of zeros to an image

25(B) Nonzero

Part b

1 Information gain leads to decrease in Entropy.

2 2. A decision tree is a linear algorithm for …………classificationn which works by trying to …decrease entropy.

3 Logistic regression is used for…classification)

4 . K-Nearest Neighbours take more time for …testing) less time for …(training

5 A table has 3 columns. First column has values ranging from -1 to +1. The second column has values ranging from 1 to 100. The third column has values ranging from 0 to +256. What should be the idle range of output from 0 to +1,

Part c

Ques 1

Remove punctuations

# Removing punctuations in string

# Using loop + punctuation string

# initializing string

test\_str = " He lived in England for 2 years then moved to Amman, Jordan where he lived there for 10 years. Steve then moved to Cyprus to study at the Mediterranean University. Unfortunately, he did not succeed and returned to Jordan. His parents were very unhappy so he decided to try in America. He applied to many colleges and universities in the States and finally got some acceptance offers from them. He chose Wichita State University in Kansas. His major was Bio-medical Engineering. He stayed there for bout six months and then he moved again to a very small town called Greensboro to study in a small college."

# printing original string

print("The original string is : " + test\_str)

# initializing punctuations string

punc = '''!()-[]{};:'"\, <>./?@#$%^&\*\_~'''

# Removing punctuations in string

# Using loop + punctuation string

for ele in test\_str:

    if ele in punc:

        test\_str = test\_str.replace(ele, "")

# printing result

print("The string after punctuation filter : " + test\_str)