

IPRC MUSANZE

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MODULE CODE AND TITLE: MACHINE LEARNING

DEPARTMENT: ICT

Code: ITLML801

FORMATIVE ASSESSMENT / 20

29/12/2023

Learning Outcome I:

Class 2877 Reg no 23 184.00.815.

1. What is the basic idea of Machine Learning?/ 2marks

- A To use day to teach a computer program how to perform a specific task.
- B. To use natural intelligence to teach a computer program how to perform a specific task.
- C. To use explicit programming to teach a computer program how to perform a specific task.
- D. To use statistical analysis to teach a computer program how to perform a specific task.

2. What is the best way to handle missing values in data?/ 2marks

- (a) Delete the rows with missing values
- b. Replace the missing values with the mean
- c. Replace the missing values with the median
- d. Replace the missing values with zero

3. What is the most common type of normalization used in machine learning?/ 2

marks

A Z/Score Normalization

- B. Nin-Max Normalization
- C. Decimal Scaling
- D. Feature Scaling

4. What is the use of machine learning in stock market trading? Marks

- a. To automate tasks such as schooluling, remoders, and other daily tasks.
- b. To suggest products to customers has all on their purchase history.
- C To analyze and predict stock prices to make better trading decisions and increase profits.
- d. To diagnose medical conditions accurately and timely.

5. What is the goal of EDA?/2 marks

- (a) To identify correlations etweet variables
- b. To identify outliers
- c. To build a predictive model
- d. To identify trends in the data

d. Clustering 6. Machine learning is becoming increasingly popular and is being used in everyday life without us even realizing it. List Some applications of machine learning in real world/? 4 marks 7. Give at least three main types of machine learning models? / 3 marks What is an imputation? list two techniques of imputations? / 3 marks 60 face recognition (11) language translation (111) Automotic can distry (14) to suggest product to custommos (V) to analyse and predict slock prices I'm un supervised model this model uses unlebelled data point. (11) Supervised model this model uses labelled data to make relationship (111) Re inforcement model this model learns to information from environment 8.9 imputation is a method of sepal replacing the missing values with (1) Mean mode (11) Median empulation method

5. In supervised learning, what is the process of using an algorithm to determine an

output based on a set of given inputs?/ 2 Marks.

a. Classificationb. Feature engineering

© Regression