QUIZ

The quiz contains 5 sections, each contains 2 question
With only one correct answer among the choices.
A correct answer will give you one point and a wrong answer will give you zero points for a max total of 10 points

To submit your answers :

1)copy and paste the following to a google doc :

Machine learning :
Answer 1 :
Answer 2 :
Deep learning :
Answer 1 :
Answer 2 :
Computer vision :
Answer 1 :
Answer 2 :
Natural language processing :
Answer 1 :
Answer 2 :
data visualization :
Answer 1 :
Answer 2 :

2. once your done with the quiz rename it to "[GDSC ISI] [ML QUIZ answers] YOUR NAME " and download it as a PDF

Hint : top left just click on the document name to edit it and then on file and look for Download in the drop down menu, make sure to select PDF

3. email it to mohamedaziz.bennessir@etudiant-isi.utm.tn
With the subject being the same as the file name.

If you have any doubts or questions that are not related to the QUIZ answers please contact us via slack in the ml-dep channel.

Good luck guys :) !

Machine learning :

1. predicting the price of a house based on the prices of other houses sold in the same neighborhood is a :

    A. Classification task.
    B. Regression task.

2. Logistic Regression is used for :

    A. Multiclass classification.
    B. Binary classification.

Deep learning :

1. An activation function is a :

    A. function that defines the shape of the input.
    B. function that defines the output of a machine learning model.
    C. function that defines the output of a node.
    D. function that defines the output of the very first layer of a neural network.

2. Forward propagations :

    A. Calculating and storing all the needed values for a neural network to calculate the output.
    B. Calculating and storing all the derivatives of all the activation functions a neural network uses.
    C. Calculating and storing all the primitives of all the activation functions a neural network uses.

D. Calculating and storing all the number of needed nodes for each layer of the neural network.

Computer vision :

1. Why are convolutional neural networks commonly used in various computer vision tasks :

    A. It can handle raw images without having to break them into pixels.
    B. It can extract various shades of colors from the input.
    C. It can extract various types of features(like edges) from the input.
    D. It can transform images to matrices so that a computer can understand them.

2. We use a pooling layer to :

    A. Reduce the size of the input
    B. Augment the size of the input
    C. Reduce the size of the output
    D. Augment the size of output

Natural language processing :

1. Why are recurrent neural networks commonly used in various natural language processing tasks :

    A. It remembers information about the input through time (forward and backward propagation).
    B. It can understand natural text without having to preprocess it.

C. The first layer of the network handels natural text embedding efficiently.

2. The tokenizer's job is to :

A. Calculate a vector representation of natural text, where each row of the vector is called a token.
B. Generate random pieces of natural texts called tokens.
C. Break a stream of natural text into separate smaller chunks called tokens.

data visualization :

1. We can visualize data using :

A. Python,numpy,pandas,...
B. Machine learning algorithms
C. Graphs,charts,maps,...
D. Manually opening the files

2. We visualize data to :

A. Preprocess all the values.
B. Detect all the missing values.
C. Discover patterns and trends in it.
D. Start writing the model.