Exam – Today Agenda

Dated – 22nd May 2024

Let’s practice SeaBorn, machine learning and deep learning today. Complete following exam questions.

SeaBorn:

Question 1:

Load seaborn – ”tips” build-in dataset. Create - scatter plot ,Grid Plot ,

Question 2:

Load seaborn – "iris” build-in dataset. Create - Pair Plots

Question 3:

Load California Housing price regression dataset - Keras., draw related plot type.

Machine Learning

Complete assignment at:

<https://github.com/ShahzadSarwar10/AI-ML-Explorer/blob/main/Week6/Weekend%20Task%20-%20Week-5%20-%20Part%20A%20-%20Linear%20Regrssion%20-%20SK%20Learn%20Algos%20%20-%20Assignments%20-%206%20Questions.pdf>

Deep Learning

**Question 1:**

Kindly write “Simple Feed forward Neural Networks Example Code” fashion\_mnist in Keras.

Train model and measure accuracy with different metric.

**Question 2:**

Kindly write – Neutral network - 1D Convolutional –CNN - For New Classification

Loads the Reuters newswire classification dataset from Keras.

Train model and measure accuracy with different metric.

**Question 3:**

Kindly write – Neutral network - 2D Convolutional –CNN - For Image Classification

CIFAR100 dataset from Keras.

Train model and measure accuracy with different metric.

**Question 4:**

Write a Recurrent-Neural-Networks-RNN – for Reuters newswire classification dataset – from keras

Train model and measure accuracy with different metric.

Analyze the difference between “Recurrent-Neural-Networks-RNN” and LongShortTerm-Memory-LSTM and GatedRecurrentUnitNetworks