**The Machine Learning & Deep Learning Show**  
**Assignment 02 & 03**Submission Date: 4th June 2021

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**Task 1 (25 Marks) :** Consider a multiple regression data (Which has more than one input variable) and implement the same.

P.S.: Use the linear regression code. Only code for defining X will change.  
  
Paste Link for the dataset: [dataset for multivariate regression](https://www.kaggle.com/hellbuoy/car-price-prediction)

Paste Github/Colab link for the code: [code for multiple regression](https://colab.research.google.com/drive/13eDfaylj8hT4Lw17lIi8uJ6XxUUWpjVW?usp=sharing)

**Task 2 (25 Marks) :** Consider any classification data from the internet and implement various classification algorithms.  
  
Paste Link for the dataset: [dataset for classification](https://drive.google.com/file/d/1mFP3UXZmrWabiNyBIPBR63zrapTgKr64/view?usp=sharing)

Paste Github/Colab link for the code: [code for classification](https://colab.research.google.com/drive/1Knsvmu8IfKCrkdsAw2b3b3h3xKWC2YZ1?usp=sharing)

**Task 3 (25 Marks) :** Consider any clustering data from the internet and implement various clustering algorithm.  
  
Paste Link for the dataset: [datset for clustering](https://www.kaggle.com/c/titanic/data)  
Paste Github/Colab link for the code: [code for clustering](https://colab.research.google.com/drive/10ybr-iOBhtTJIfsa3926XzZC1_ht_hjv?usp=sharing)

**Task 4 (25 Marks):** For linear regression data used in assignment 01, now implement a neural network. Use various configurations of neural networks. Change parameters to see changes in accuracy.   
  
Paste Link for the dataset: available in a module in python

Paste Github/Colab link for the code: [code for neural networks](https://colab.research.google.com/drive/1unlkuTAVvML_TvrmERyNv57hDnJGbVdw?usp=sharing)