



Assignment Due: 13th June 2020; 11:59 PM (IST)

## *The Machine Learning & Deep Learning Show*

### *Assignment 01*

### Assignment 01

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ID Number: *[20200601]*

#### Rules:

1. Download this assignment in word format and edit it to add your answer.
2. After answering, save your assignment in PDF format.
3. Rename the file in the format: ID Number\_ASG01\_MLDLS. *Example 05\_ASG01\_MLDLS*

#### Question 1: (20 Points)

For the following  $y$  and  $y'$ , find value of loss function

$y$	12	14	17	25	29	34	35	40	42
$y'$	10.5	12	14	21	26	31	34	40	40

#### Answer 1:

54.25

#### Question 2: (50 Points)

Please download the dataset using the given link and create a multivariate linear regression model to predict *profits* depending on *investments* of startups.

Split the data in ratio 9:1 in proportion to train: test.

Link for the dataset: <https://1drv.ms/u/s!Ai33XNwSq5w1iUCsc9aF0JkGAA3E?e=Ho8kgQ>

#### Answer 2:

Link for your code:

[https://stdntpartnersmy.sharepoint.com/:u:/g/personal/arpit\\_sharma\\_studentpartner\\_com/ESWMMqj0VgJDUSfm4Ydu2WgByElFsZQz8sGk\\_\\_1Xp9yu9g?e=mAj0of](https://stdntpartnersmy.sharepoint.com/:u:/g/personal/arpit_sharma_studentpartner_com/ESWMMqj0VgJDUSfm4Ydu2WgByElFsZQz8sGk__1Xp9yu9g?e=mAj0of)

#### Question 3: (30 Points)

Come up with an amazing idea where regression can be used around you or in school or companies or hospitals, etc.

#### Answer 3:

Title of idea: predicting the faults in wind turbine

Description/Motivation [80-100 Words]:

Since, from my second year of bachelors, I was curious about wind turbine and fault analysis in wind turbine model, so I thought of an idea to predict the faults in wind turbine by regression or by any other implementation.



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