**NEURAL NETWORK & DEEP LEARNING**

**ASSIGNMENT 4**

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**Git hub Link:** [**https://github.com/NSnusha/NNDL\_Assignment4**](https://github.com/NSnusha/NNDL_Assignment4)

**Video link:** [**https://drive.google.com/file/d/1V1HRWKh446Ffiz5HJT06j7l6mNgZt64Q/view?usp=sharing**](https://drive.google.com/file/d/1V1HRWKh446Ffiz5HJT06j7l6mNgZt64Q/view?usp=sharing)

1. 1. Data Manipulation a. Read the provided CSV file ‘data.csv’. b. https://drive.google.com/drive/folders/1h8C3mLsso-R-sIOLsvoYwPLzy2fJ4IOF?usp=sharing c. Show the basic statistical description about the data. d. Check if the data has null values. i. Replace the null values with the mean e. Select at least two columns and aggregate the data using: min, max, count,mean. f. Filter the dataframe to select the rows with calories values between 500 and1000. g. Filter the dataframe to select the rows with calories values > 500 and pulse **A screenshot of a computer

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2. Linear Regression a) Import the given “Salary\_Data.csv” b) Split the data in train\_test partitions, such that 1/3 of the data is reserved as test subset. c) Train and predict the model. d) Calculate the mean\_squared error e) Visualize both train and test data using scatter plot.**A screenshot of a computer

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