



**National Vocational & Technical Training Commission**  
Institute of Electrical, Electronics and Computer Engineering  
University of the Punjab



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**Artificial Intelligence C1 & C2**  
**Assignment 01 : 05/07/2023**  
**Module 3 : week 7**

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*Submission Requirements: Please upload your codes in PDF File on Google Classroom in the relevant Assignment section.*

*Note: Plagiarism is a serious violation. Zero marks will be awarded in case plagiarism is found.*

***Note: For all tasks you need to load data from given excel file.***

You are required to build a module having these functions:

**Task 1 :** Load dataset(Student\_score.xlsx) as dataframe and explore dataset using commands. Scatter plot features and corresponding labels. Do preprocessing and prepare for training. After that you are required to split dataset into train and test dataset using `split_train_dataset()` function. Train your model on linear regression. Evaluate your model using test dataset. You can import metrics from sklearn library and use `mean_square_error()` function to evaluate.

**Task 2:** Load dataset(petrol\_consumption.csv) as dataframe. Here you will find multiple feature against labels. You are required to perform linear regression and evaluate your model. Perform all steps as mentioned in task1.