## Artificial Intelligence and Machine Learning

Project Report

Semester-IV (Batch-2022)

**Case Study**: - Addition of Two Numbers using Linear Regression

[Url:-](file:///C:\\Users\\spars\\Desktop\\AIML%20Project\\-)[https://drive.google.com/file/d/1fA4LMyeDIAqM5EjLKiI97x1wJ-jESmee/view?usp=sharing](https://drive.google.com/file/d/1fA4LMyeDIAqM5EjLKiI97x1wJ-jESmee/view?usp=sharing" \t "https://www.smartwebsolutions.org/text-to-url/_blank)

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**Description about Case Study: -**

* Read dataset Add
* Create scatter plot using x and sum columns
* Set data for training and testing
* Train data
* Check model prediction performance
* Compare results
* Prediction

**Library: -**

* Pandas
* Matplotlib.pyplot
* Sk.learn

**Methods: -**

1. **read\_csv():**

Description: Reads a CSV file and converts it into a data frame.

1. **Scatter():**

Description: Used to create a scatter plot

1. **test\_size**:

Description: The proportion of the dataset to include in the test split

1. **random\_state:**

Description: To ensure reproducibility

1. **train\_test\_split:**

Description: function for splitting arrays or matrices into random train and test subsets

1. **.fit():**

Description: Used for training the model on training data.

1. **.score():**

Description: Used to evaluate the performance of the model on the dataset

1. **.predict():**

Description: Used for making predictions on new data using trained model