

# Machine Learning with Python

## VAC Assignment Guidelines

### Prag Robotics

Dear Students,

Consider this document as guidelines for completing the assignment. Assignment carries a part of the total marks in VAC. Marks will be awarded based on the genuineness of the content and the quality of it.

#### GUIDELINES FOR ASSIGNMENT:

- This is an **individual assignment**
- This assignment is for the “**Machine Learning**” section of VAC
- Save the file with name as “**Linear Regression – Name of the prediction**”.  
For example, “**Linear Regression – Weather prediction(Temperature)**”.
- Create a GITHUB account
- Upload the file into your GITHUB account as separate repository named “**Linear Regression**”. Also provide short description about the work you did.
- Send your GITHUB account link to your respective class representative.
- **Class representatives** should collect all the students GITHUB accounts in an excel sheet adjacent to their names in the list.
- Last date for submission is **15<sup>th</sup> October 2021**.
- Those who upload properly in GITHUB by the deadline only will be considered
- For any other clarification you can contact **Mr. Dinesh/Mr. Vignesh** from Prag Robotics.

- CR must mail the GITHUB link excel file to [dineshkumar.m@pragrobotics.com](mailto:dineshkumar.m@pragrobotics.com)

#### **PROBLEM STATEMENT:**

- Choose a problem statement in any field
- Collect data with appropriate features for the problem statement
- Data collection can be done on your own depending on the problem statement or you can also use the dataset available open source
- Import and pre-process the data
- Perform Linear Regression by choosing appropriate variables
- Plot graphs wherever necessary and provide performance metrics

#### **RESOURCE FOR DATASET:**

- Kaggle
- <https://archive.ics.uci.edu/ml/datasets.php>