

Installation instructions

After cloning the repository, Make sure you have Python3 and pip install.

- <https://www.python.org/downloads/>
- <https://pip.pypa.io/en/stable/installing/>

Now install all the required libraries. Make sure you're inside the project directory before running the command.

```
pip install -r requirements.txt
```

Pre - running instructions

Keep the input data, which is a CSV file, **in the same directory as `main.py`**

Running instructions

Run program from inside the project directory using python or python3

```
python main.py <filename>
```

For eg.

```
python main.py testsampleinput.csv
```

filename is the name of the CSV you will put as input for testing data.

Codebase and outputs

1. Codebase - contains the entire codebase with 4 classifier models and meal/no-meal data.
2. Outputs - classifier labels are stored in **classifier_predictions.csv** for each classifier.

Meal label is signified by 1 and No Meal is signified by 0.
3. README.pdf - Quick start readme file.

Average scores for different classifiers with K-Fold Validation:

	F1 Score	Accuracy	Recall	Precision
Decision Tree	69.15	67.15	70.19	70.38
Multilayer Perceptron	73.14	70.26	72.43	75.36
Random Forest	69.5	69.27	67.05	71.86
Support Vector Machine	65.59	66.33	63.98	67.12