PANTECH SOLUTIONS®
Technology Beyond the Dreams

AI Master Class series – Day 23

Evaluating & Deploying Machine Learning Algorithm

Day-22 Agenda.

01.

Workflow

Workflow of ML Application

02.

Basic Syntax

ML application design basic syntax

03.

Deploying ML

Energy Meter Power consumption detection using ML

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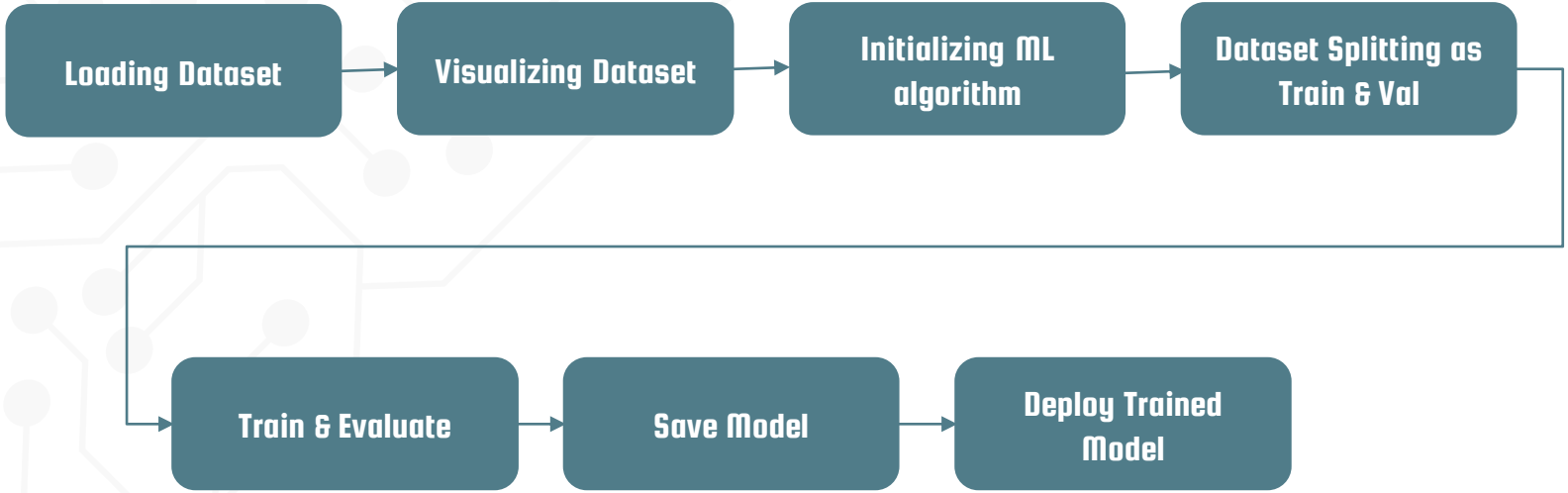
Workflow of ML application design.



Load & Summarize Dataset

LOADING DATASET

```
from pandas import read_csv
fileName = “fileName.csv"
dataset = read_csv(fileName, names)
```

SUMMARIZE DATASET

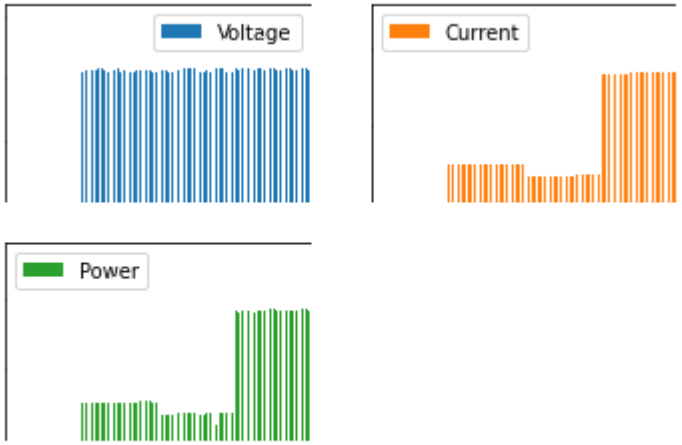
```
dataset.shape    #Size of Dataset rows & Columns
dataset.head(20) #Top 20 Values in Dataset
dataset.describe() #Info about Dataset
dataset.groupby('class').size() #returns Number of data for each class
```

Visualizing Dataset

PANDAS & MATPLOTLIB

```
from pandas.plotting import scatter_matrix
from matplotlib import pyplot
```

```
dataset.plot(kind='bar',subplots=True,layout=(2,2))
pyplot.title('BAR PLOT')
pyplot.show()
```

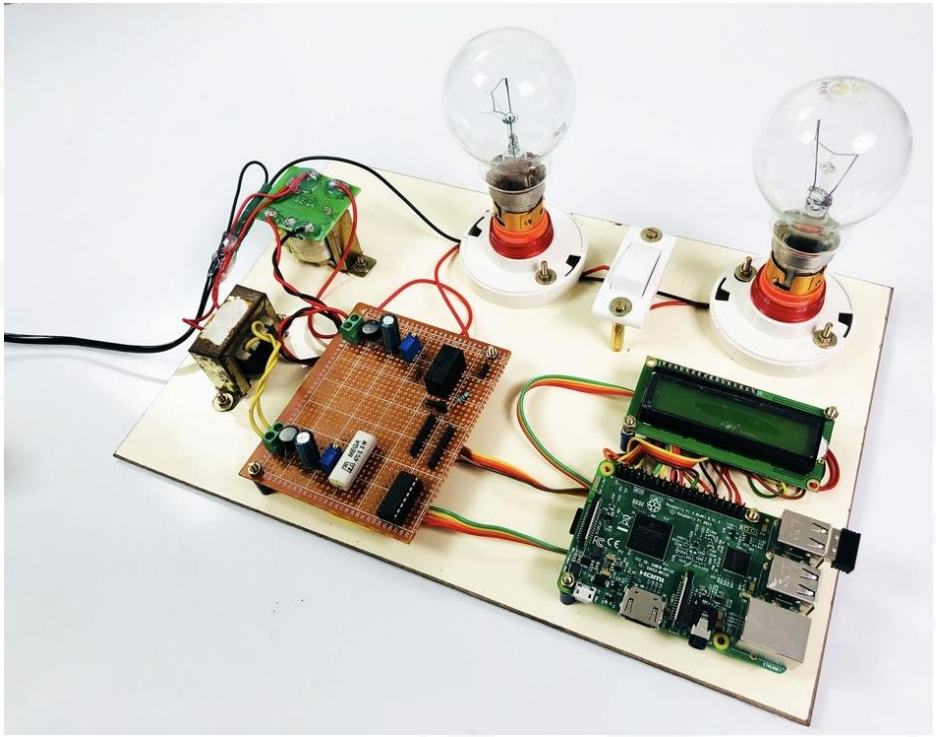


Importing & Training Algorithm

```
from sklearn.svm import SVC

Model = []

models.append(('SVM', SVC(gamma='auto')))

model.fit(X_train, Y_train)
```

! PRACTICAL SESSION !

Dataset



Note: You can use ur dataset

Evaluating ML Algorithm for identifying Power Consumption in Energy Meter Reading

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Tomorrow session

Fake News detection using ML