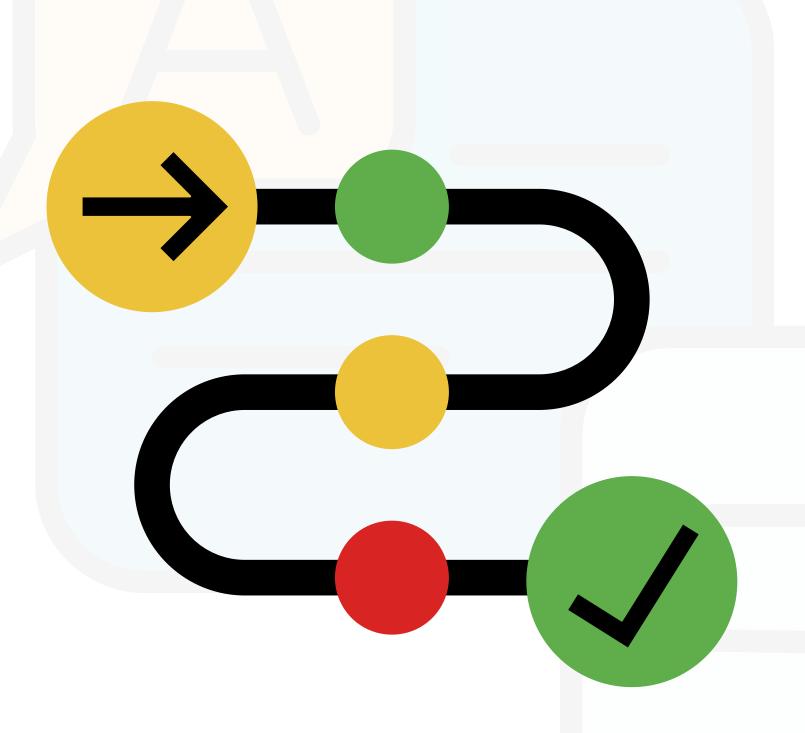
## Machine Learning RoadMap



#### 7 Steps in Machine Learning

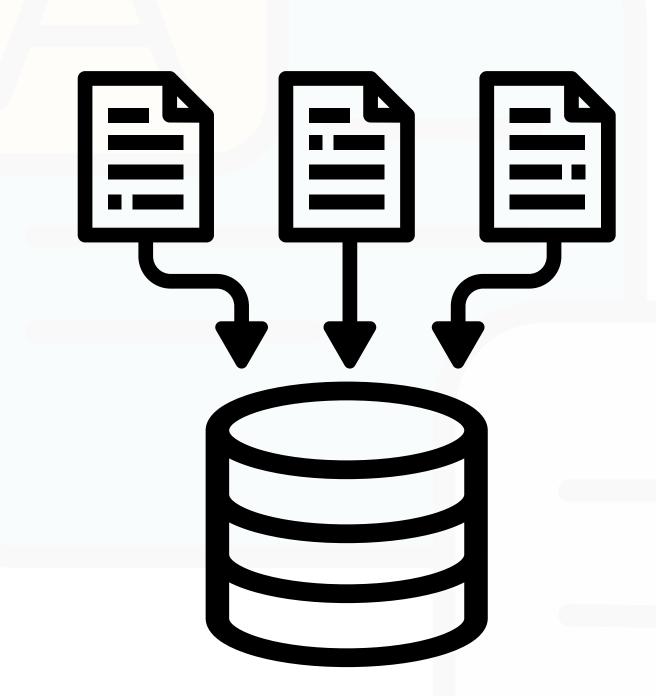
- 1. Gathering Data
- 2. Preparing the Data
- 3. Choosing a model
- 4. Training
- 5. Evaluation
- 6. Hyperparameter Tuning
- 7. Prediction

Deployment

pradeepbyme@gmail.com

#### 1. Gathering Data:

- a. From Companies
- b. From API
- c. Web Scraping



#### 2. Preparing the Data:



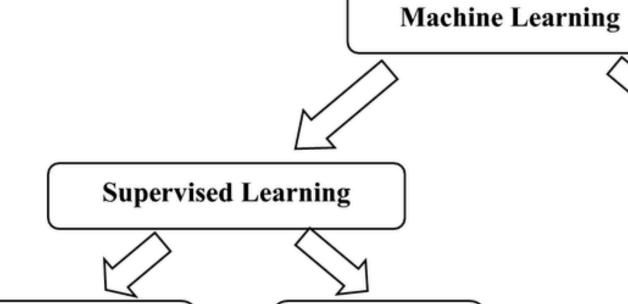
- a. Exploratory Data Analysis(EDA)
- b. Data Visualization





#### 3. Choosing Model





Classification

Support Vector Machines

Discriminant Analysis

Naïve Bayes

Nearest Neighbor

Neural Networks Regression

Linear Regression, GVM

SVR, GPR

Ensemble Methods

Decision Trees

Neural Networks **Unsupervised Learning** 

Clustering

K-Means, K-Medoids fuzzy C-Means

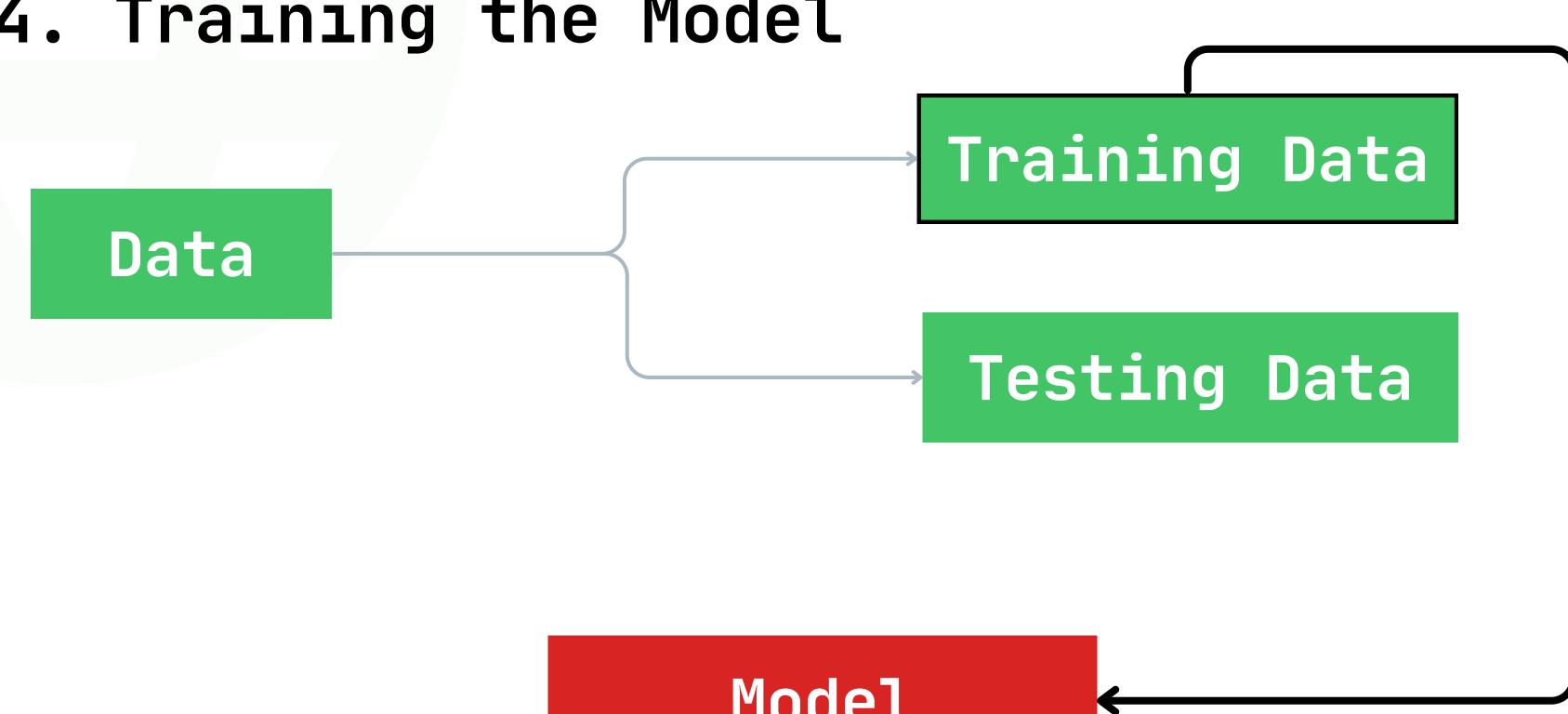
Hierarchical

Gaussian Mixture

**Hidden Markov Model** 

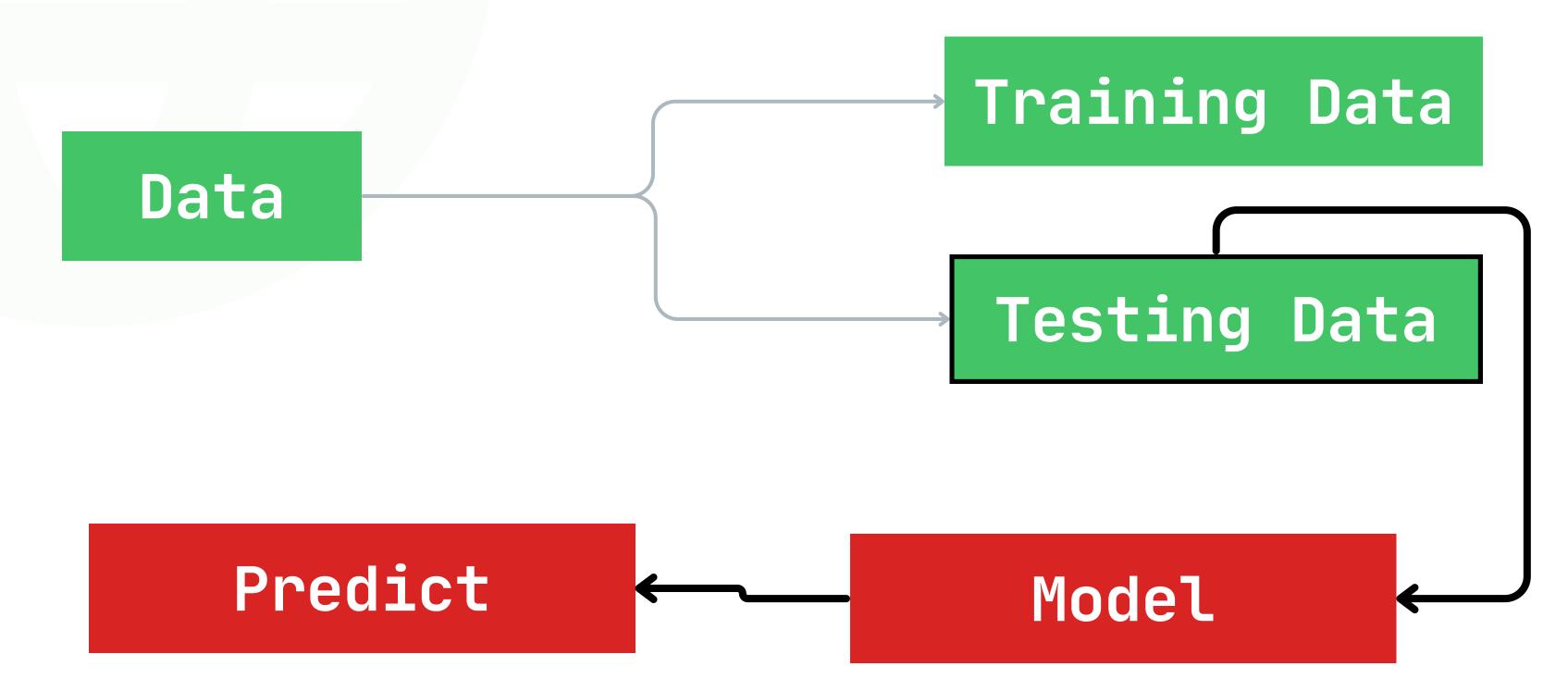
**Neural Networks** 

### 4. Training the Model



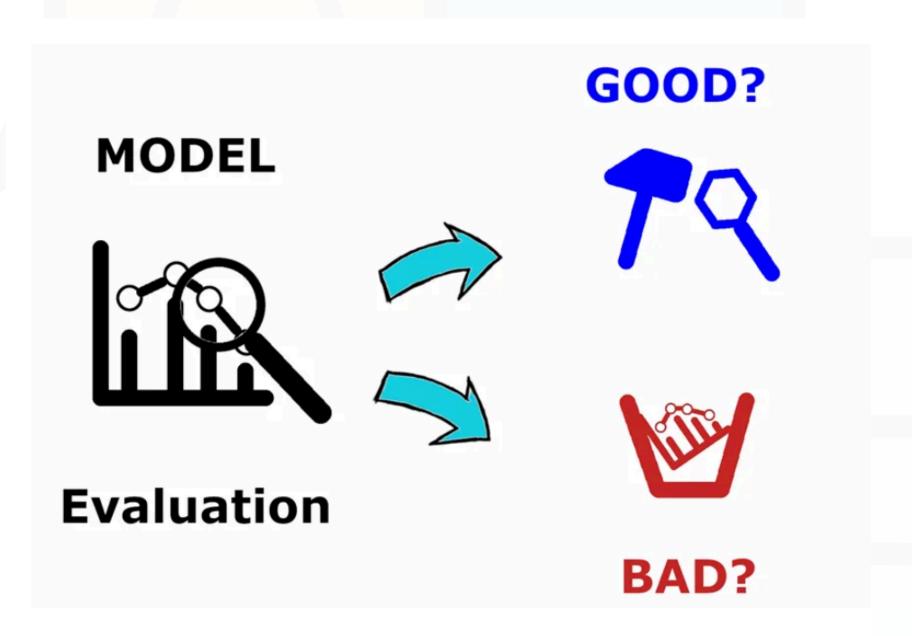
Model

### 4. Training the Model



#### 5. Model Evaluation:

- a. Confusion Matrix
- b. Precision Score
- c. F1 Score
- d. Recall



pradeepbyme@gmail.com

### 6 Hyperparameter Tuning

pradeepbyme@gmail.com

# Prediction