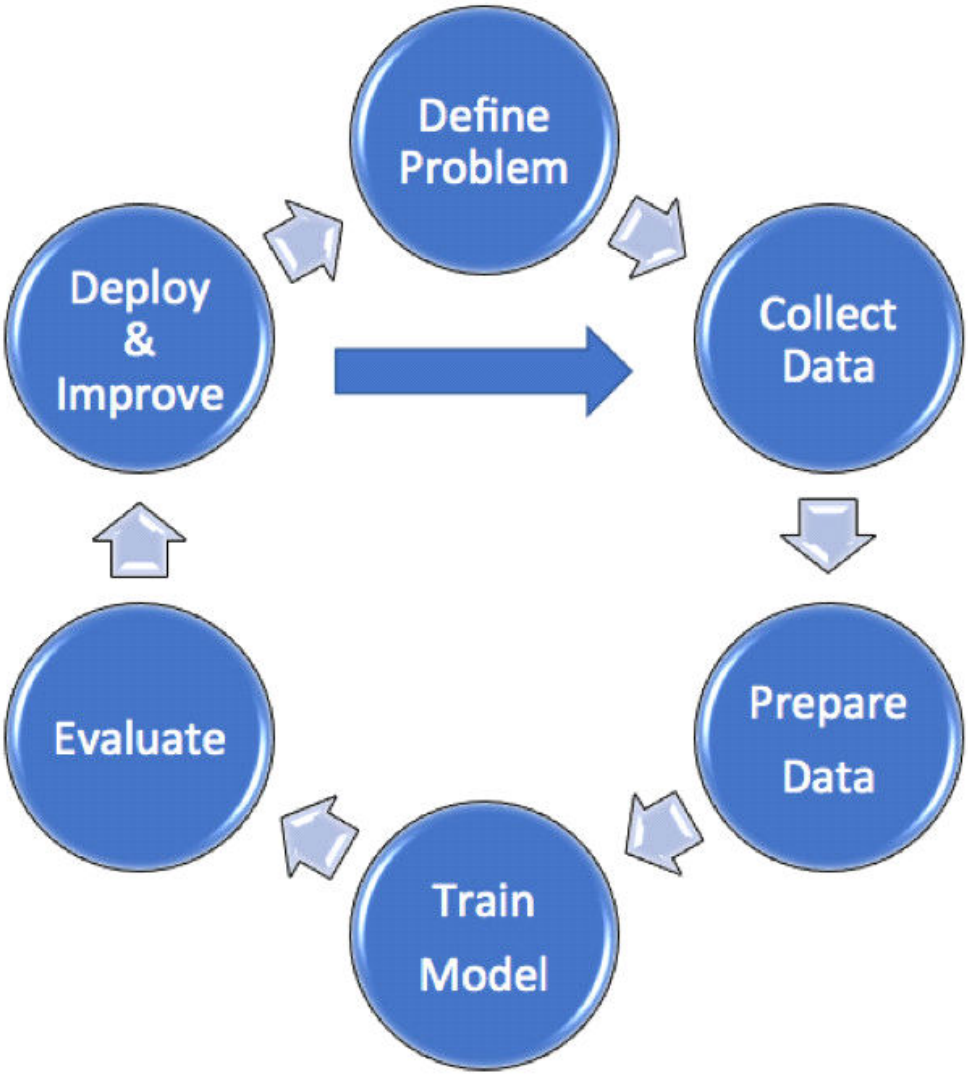
Stores Sales Prediction

PROJECT ARCHITECTURE

10/11/2021

ARCHITECTURE



1) ***Define Problem*** :- Nowadays, shopping malls and Big Marts keep track of individual item sales data in

order to forecast future client demand and adjust inventory management. In a data

warehouse, these data stores hold a significant amount of consumer information and

particular item details. By mining the data store from the data warehouse, more

anomalies and common patterns can be discovered.

2) ***Collect Data*** :- Data is taken from kaggle

dataset link :-
https://www.kaggle.com/brijbhushannanda1979/bigmart-sales-data

We have train (8523) and test (5681) data set, train data set has both input and output

variable(s). We need to predict the sales for test data set.

3) ***Prepare Data*** :- In This steps we prepare data so that we can provide data to machine learning models to train on that data, this step includes cleaning data, removing unnecessary values, outliers removal etc.

4) ***Train Model*** :- For model model training we have used Linear Regression, Lasso Regression, Ridge Regression, Elastic Net etc. and we select linear regression for prediction.

5) ***Evaluate*** :- After training different models we have evaluated their performances by using accuracy as evaluation metrics.

6) ***Deployment*** :- For deployment we have used heroku and we have created the web app using streamlit.

https://salesprediciton1.herokuapp.com/