

**Petrol Price Forecasting**

Project Architecture

Domain: Machine Learning

Creator: Vaibhav Joshi

Date: 25.09.2023

# **Architecture**

**Data Preparation**

**Model**

**Development**

# **Architecture Description**

## Data Preparation

### Data Description

The health condition data form the insurance company. The goal of this project is to build a prediction model using multiple machine learning techniques and to use a template to document the end-to-end stages. We're trying to predict the expenses the client will make on the premium of insurance.

### Data Preprocessing

In data preprocessing step, we check if there missing data, duplicate values, and data types of each feature. In our dataset, there was not any null and duplicate values

## **Model Development**

### Model implementation

After train and test splitting, ARIMA and SARIMA were used to build the model.

### Model Evaluation

Test dataset is used to evaluate the model. First 500 data of dataset was separated for training. Predicted results of the model are compared with the actual data to check the amount of error.

## **Forecasted Data**

The forecasted data is saved in csv file.