

Ideation Phase
Define the Problem Statements

Date	24 September 2022
Team ID	PNT2022TMID24057
Project Name	Project - Crude Oil Price Prediction
Maximum Marks	2 Marks

Crude oil is the world's demanding requirement, and its prices have a big impact on the global environment, economy as well as major raw material to produce energy , transportation , and fuel coverage. Oil price forecasts are very useful to industries, governments and individuals. Although many methods have been developed for predicting oil prices, it remains one of the most challenging forecasting problems due to the high volatility of oil prices. In this paper, we propose a novel idea for crude oil price prediction based on a new machine learning paradigm . The main advantage of our stream learning approach is that the prediction model can capture the changing pattern of oil prices since the model is continuously updated whenever new oil price data are available, with very small constant overhead. To evaluate the forecasting ability of our streaming learning model, we compare it with three other popular oil price prediction models. The experiment results show that our stream learning model achieves the highest accuracy in terms of both mean squared prediction error and directional accuracy ratio over a variety of forecast time horizons.