CRUDE OIL PRICE PREDICTION USING ARTIFICIAL INTELLIGENCE

TEAM ID **: PNT2022TMID44721**

TEAM MEMBERS **: DHARMENDHIRA G G (732519106002)**

GOKUL K (732519106003)

JEBASTIN J (732519106006)

MEENAKSHI S (732519106013)

DEPARTMENT **: ELECTRONICS & COMMUNICATION ENGINEERING**

COLLEGE NAME **: SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI**

PROBLEM SOLUTION FIT:

This Project mainly focuses on applying Neural Networks to predict the Crude Oil Price. This decision helps us to buy crude oil at the proper time. Time series analysis is the best option for this kind of prediction because we are using the Previous history of crude oil prices to predict future crude oil. So we would be implementing RNN (Recurrent Neural Network) with LSTM (Long Short Term Memory) to achieve the task.

There has been a renewed interest in accurately forecasting the price of crude oil and its fluctuations. Buying crude oil at a proper time is crucial to avoid risk of losses. Time series analyses is the best option for this kind of prediction because we are using the previous history of crude oil prices to predict future crude oil prices. Time-series data will be collected and pre-processed as needed, and two architectures of computational neural networks will be tested: Recurrent Neural Network (RNN) and long-short term memory (LSTM) neural networks. The findings suggest that LSTM networks are the best architectures to predict the crude oil price. The outcomes of this project could potentially help in making the oil price prediction mechanism a more tractable task and in assisting decision-makers to improve macroeconomic policies, generate enhanced macroeconomic projections, and better assess macroeconomic risks

SOLUTION ARCHITECTURE :