

# PROJECT DESIGN PHASE – I

## PROPOSED SOLUTION TEMPLATE

Date	26 - September - 2022
Team ID	PNT2022TMID36733
Project Name	Project - Crude Oil Price Prediction

### PROPOSED SOLUTION TEMPLATE:

The Project Team shall fill the following information in the proposed solution template.

S. No.	Parameter	Description
1	Problem Statement (Problem to be Solved)	To help the investors, public and private organizations to find a way to predict the crude oil price so that they can understand the oscillations of the crude oil prices and also to help them understand the impact on global economics and minimize the risk associated with the transient nature of crude oil prices.
2	Idea / Solution description	The issues identified are overcome in our proposed solution by predicting the price of crude oil by utilizing several Deep Learning Algorithms. The algorithms are implemented in various fields such as the Opening, Closing and the Mean Price of Crude Oil. A Multivariate Analysis Model is planned to be built in the future to visualize how the price of crude oil changes concerning the other commodities.
3	Novelty / Uniqueness	<p>It is easy for the optimization algorithms to optimize the parameters to get the output. This helps the proposed model to illustrate lowest errors and better forecasting accuracy when compared to other models.</p> <p>The reason why movements in oil price often surprise analysts is because there are hundreds of variables, each of them moving simultaneously in unpredictable ways.</p>

4	Social Impact / Customer Satisfaction	As crude oil is a major source of fuel, predicting its price would provide a clear-cut view of its trend. Governments, Private Enterprises and other institutions can stock it accordingly to prevent scarcity and sudden price rises. If the organizations can anticipate it and take the action accordingly, they would be able to overcome the issues during critical situations.
5	Business Model (Revenue Model)	Crude oil price prediction helps for the supply of crude oil is determined by the ability of oil companies to extract reserves from the ground and distribute them around the world.
6	Scalability of the Solution	To improve the precision of the solution we need to include more factors which are either affecting directly or indirectly the price of the crude oil.