**Literature Survey**

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| **S.NO** | **Title** | **Authors** | **Publication Date** | **Methodology** | **Merits** | **Demerits** |
| 1 | Brent crude oil price forecast utilizing Deep Neural Network Architectures | Amir Daneshvar and  Maryam Ebrahimi | 05 May 2022 | Artificial Neural Network,  Deep Learning | The LSTM layers results in more accurate result. | Crude oil price signals exhibit highly nonlinear and complex behavior. |
| 2. | Crude oil prices and volatility prediction by a hybrid model based on kernel extreme learning machine | Hongli Niu and  Yazhi Zhao | 17 September 2021 | VMD-KELM | The VMD-KELM model shows a more powerful ability than other models in improving the precision of forecasting crude oil volatility. | **-** |
| 3. | Crude oil price prediction using ANN | Nalini Gupta and  Shobhit Nigam | January 2020 | Artificial Neural Network | ANN model is effective.  This capture the changing pattern of prices.  Prediction is accurate. | Market trends have to be planned, then the ANN model will perform. |
| 4. | Crude oil price prediction using complex network and deep learning algorithms | Makumbonori Bristone,  Rajesh Prasad,  Adamu Ali Abubakar | 19 June 2019 | Artificial Neural Network,  Deep Learning | The appropriate number of LSTM layers can effectively improve the model. | The other factors that affect the crude oil price volatilities such as economic growth, exchange rate demand are not considered. |
| 5. | Daily crude oil price forecasting using Hybridizing wavelet and Artificial Neural Network Model | Ani Shabri and Ruhaidah Samsudin | 16 July 2014 | Artificial Neural Network | The hybrid model showed a great improvement in crude oil price modeling and produced better forecasts than ANN model alone. | **-** |
| 6. | Machine Learning Approach for crude oil price prediction with Artificial Neural Networks-Quantitative (ANN-Q) model | Abdullah | - | Artificial Neural Network | Returns function had successfully proved to cleanse and uniform the data from errors and noises hence, the crisp prediction result. |  |
| 7. | A novel look back N feature approach towards prediction of crude oil price | Rudra Kalyan Nayak | - | ARIMA,  LBNF Algorithm | Attained better training and accuracy by shifting the dataset into n class problem and more scope to classifier. | - |