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| Date | November 2022 |
| Team id | PNT2022TMID46337 |
| Project Name | Crude oil price prediction |
| Maximum mark | 2 Marks |

\*This paper proposed a hybrid model for crude oil price prediction that uses the complex [network analysis](https://www.sciencedirect.com/topics/engineering/electric-network-analysis) and long short-term memory (LSTM) of the deep learning algorithms.

\*The complex network analysis tool called the visibility graph is used to map the dataset on a network and K-core centrality was employed to extract the non-linearity features of crude oil and reconstruct the dataset.

\*The complex network analysis is carried out in order to preprocess the original data to extract the non-linearity features and to reconstruct the data. Thereafter, LSTM was employed to model the reconstructed data.

\* To verify the result, we compared the empirical results with other research in the literature. The experiments show that the proposed model has higher accuracy, and is more robust and reliable.