SCENARIO

The prices of crude oil varies in different parts of the world. These prices can be predicted based on certain factors.

EXPECTATIONS

- considering factors
- observing highs and lows
- displaying graphically

PROPOSITIONS

Crude oil price fluctuations have far-reaching consequences for global economies.

Price forecasting can help to mitigate risks.

Very important to a variety of stakeholders, including governments, the public and private sectors.

There are numerous factors that influence crude oil prices.

UNDERTAKE

SVM, ELM, and LSTM models are used to forecast series.

The predictions of the three single models mentioned above are first reconstructed using FR.

The XGBoost method is used to generate a secondary prediction for the series.

Price prediction is influenced by factors such as demand, supply, and speculation.

EXECUTIONS

The monthly WTI price data are first classified into classes.

Text mining was used to mine the news and retrieve information from the stock market.

The extraction of features from the news was done manually.

The crude oil market's key factors are discovered, verified, and graphically presented.

COMPLETION

It demonstrates and validates the variables chosen for training.

This provides the accuracy not only to the trend but also to its discrete price.

There was a parallel and positive movement between the actual and predicted prices.

Validates the effectiveness of key factors chosen for the HC model.