Energy and Commodity Price Prediction

About:

CogniTensor's Energy and Commodity Price Prediction is a combination of correlation analytics and prediction dashboards that are specially designed to assist you in detecting future prices of energy and various commodities and suggests when to buy optimally, minimizes risk exposure and optimizes portfolio management.

It enables you to pre plan the buy cycle in accordance with future predictions for the day ahead, real-time market. These objectives range from optimised management of resources for energy portfolio and knowing the best buy time for required commodities. We enable you to achieve these objectives with a combination of advanced data analytics and data-driven forecasting, in order to provide you with actionable insights.

The predictive analytics use bespoke combinations of cutting-edge machine learning and deep learning models, backed by advanced research. These algorithms have been tailored specifically to handle the complex time series data coming from certified sources as well as taking account of external factors as well such as holidays, weather, etc . The entire system is developed on a state of the art platform, backed by open source technologies.

Each component is highly customizable in terms of data and other relevant specifications in order to cater to your needs in today's dynamic business environment.

After the successful deployment of the solution, we will continue to improve and tweak the components of your dashboard, both from the front-end as well as the back-end, readily accommodating any customisation request that may arise in between. The result will be a robust AI powered dashboard, with the help of which you can track all your KPI metrics and gather powerful insights in order to make data-driven decisions for all business related operations.

Features and Capabilities:

- The solution provides **Price Prediction of Energy** for Day-ahead-Market, Real-time and Derivative on IEX enabling users to know **best time to buy**

- **Optimising Energy Portfolio** management

- Predicts price of various **commodities** on LME

- Leverages an " **External Events**" database capturing relevant external factors that impact price and volume

- Build, monitor, analyze, and optimize power system operation models in real-time

- Increase operational efficiency and derive cost savings

- Deploy **Load Forecasting** now in advance exactly how much power one needs to buy for each level

- Self-learning predictive models that adapt to your needs, constantly evolving to deliver superior performance

- Easy integration support with databases management systems such as Oracle, Postgres, etc.

- Round the clock monitoring via an intuitive web app and on-the-go tracking through a dedicated mobile app