Foreign Exchange Analysis

Function: #Risk Management | Industry: #Finance



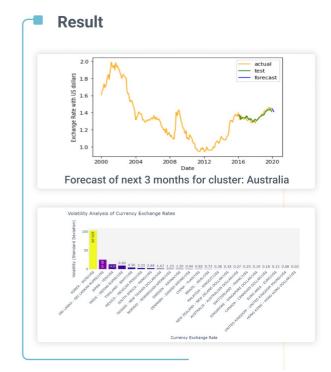
- · To enable effective management of foreign exchange risk.
- To analyse exchange rate trends that helps in making informed decisions.
- To forecast accurate exchange rate for different countries.

Technique

- · Statistical Analysis
- · Data Modelling
- · Time Series Forecasting
- Visualization

Impact

- · Prescriptive analysis to make informed recommendations and decisions for optimising future outcomes.
- · Improved risk management.
- · Better liquidity optimisation.



Value Points

Understand the what, why, when, where & how

Exploratory Analysis

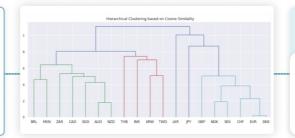
Exploratory Data Analysis On The Preprocessed Data To Derive Meaningful Data Insights



Heat map illustrating correlation among attributes

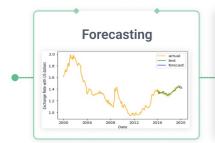
Exploratory data analysis enables business owners to derive meaningful insights and making better data-driven decisions as opposed to intuitive ones.

Cluster Analysis ▼ Clustering Centroid Based 🚇 Hierarchical Clustering Clustering Distance Based 🕒 Incremental



Cluster analysis resulting in clusters of countries exhibiting similar exchange rate patterns.

Cluster analysis provides valuable insights about the dynamics of exchange rates among different countries, enables in decision-making.



Cluster	KPI'S	LSTM	GRU
Cluster	MAE	0.0414	0.1212
	RMSE	0.04800	0.1233 0
	Time	1164.40 41 sec	1190.2 233 sec

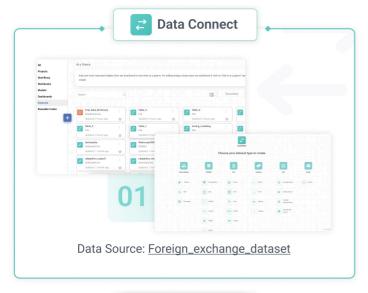
Forecasting results as per the clusters using the LSTM model for next three

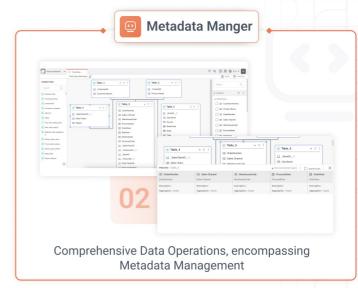
Using the forecasting insights, prescriptive analysis can be conducted to make informed recommendations and decisions for portfolio management.

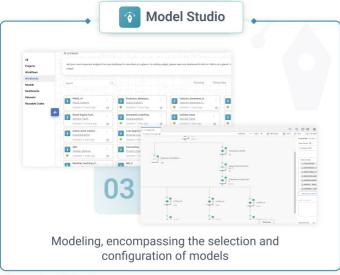
Multi Persona DSML Platform

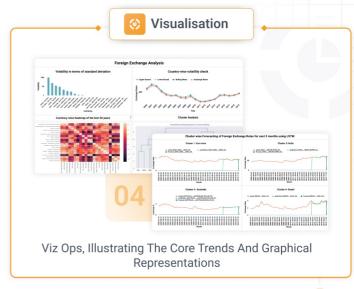
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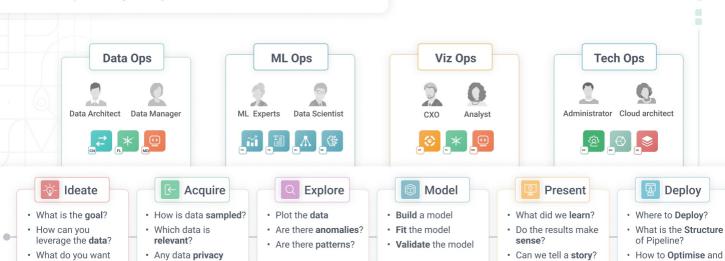






Agile Data Science

Encapsulating best practices, tools and methods



to predict?

issue?

Scale?

Deploy