

Cash Flow Management

Function : #Cash Flow Forecasting | Industry : #Finance

Goal

- To forecast accurate inflows and outflows amount, enabling effective cash flows.
- Anticipate cash inflows and outflows, enabling effective liquidity management for the Treasury Management department.

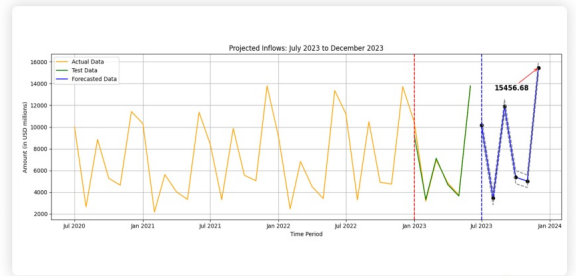
Technique

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

Impact

- Prescriptive analysis to make informed recommendations and decisions for optimising future outcomes.
- Organisations can achieve desired goals and objectives using actionable insights and guidance.

Result

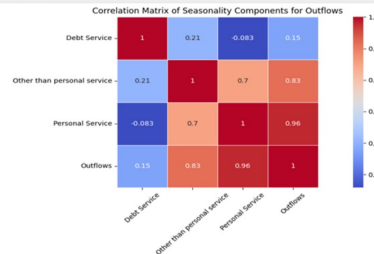


Value Points

Understand the what, why, when, where & how

Exploratory Analysis

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

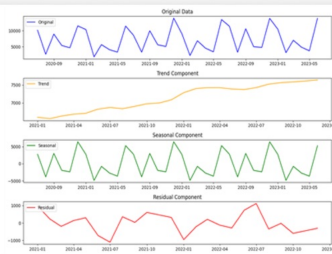


Heatmap illustrating correlation among attributes

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

Decomposition Analysis

- Forecasting
- Data Exploration
- Data Preparation
- Modeling



Decomposition methods to identify trends and seasonal patterns

Decomposition analysis, derives trends, seasonal patterns identifying relative peaks for further forecasting models.

Forecasting



| Attributes | KPI'S | PROPHET |
|----------------|------------------------------|-----------|
| Total Inflows | Forecast Accuracy (R-square) | 0.8155 |
| | Inference time | 0.051 sec |
| Total Outflows | Forecast Accuracy (R-square) | 0.5372 |
| | Inference time | 0.051 sec |

Forecasting inflows/outflows amount using Auto-ARIMA, LSTM, etc.

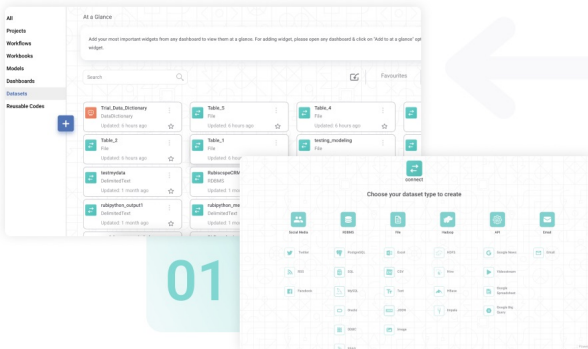
Forecasting insights leads to informed recommendations and decisions for optimising future outcomes.

Multi Persona DSML Platform

For all your data needs- Data Engineering, Data Science, Data Visualisation, IoT



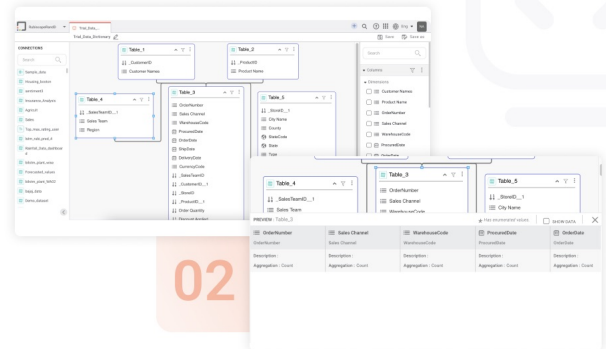
Data Connect



01

Data Source: Cash_Flow_Management

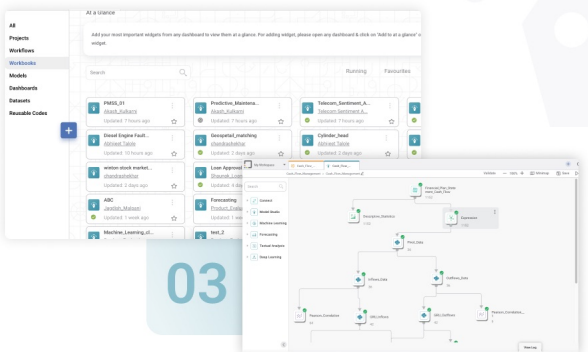
Metadata Manger



02

Comprehensive Data Operations, encompassing Metadata Management

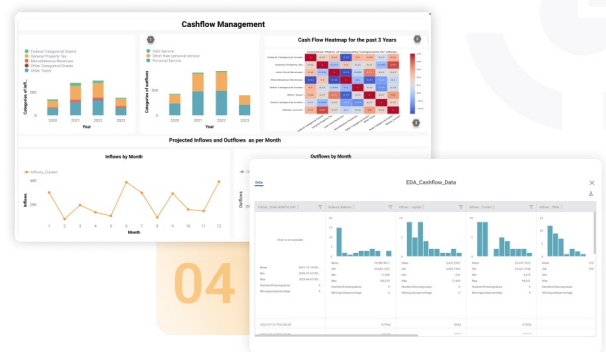
Model Studio



03

Modelling, encompassing the selection and configuration of models

Visualisation



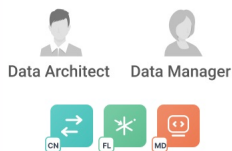
04

Viz Ops, Illustrating The Core Trends And Graphical Representations

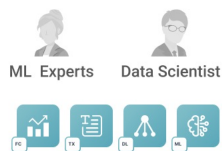
Agile Data Science

Encapsulating best practices, tools and methods

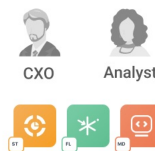
Data Ops



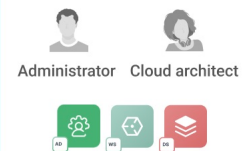
ML Ops



Viz Ops



Tech Ops



Ideate

- What is the goal?
- How can you leverage the data?
- What do you want to predict?

Acquire

- How is data sampled?
- Which data is relevant?
- Any data privacy issue?

Explore

- Plot the data
- Are there anomalies?
- Are there patterns?

Model

- Build a model
- Fit the model
- Validate the model

Present

- What did we learn?
- Do the results make sense?
- Can we tell a story?

Deploy

- Where to Deploy?
- What is the Structure of Pipeline?
- How to Optimise and Scale?