Customer Lifetime Value Prediction

Function: #Customer Segmentation | Industry: #Retail Industry



Goa

- To identify high, medium, and low value customer segments.
- To provide personalised offers and experiences to customers.
- To allocate resources efficiently to businesses for targeting customers with the highest CLV potential and predict customer churn.

Technique

- · Feature Engineering
- · Segmentation Techniques
- · RFM Analysis
- · Clustering and classification modelling
- Visualisation

Impact

- Guided resource allocation, marketing strategies, and customer service efforts.
- Offering cross-selling and upselling to customers with CLV potentials.
- CLV helps businesses identify risks associated with over-reliance that encourages diversification and risk management strategies.

Result





Value Points

Understand the what, why, when, where & how

Exploratory Analysis

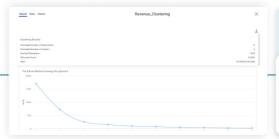
Exploratory Data Analysis On The Preprocessed Data To Derive Meaningful Data Insights



Trend analysis identifying highest sales and revenue.

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





Calculate recency, frequency, and revenue and then identify clusters using customer's lifetime value obtained

RFM analysis yields dominant cluster showcasing customers with highly frequent transactions and even the high monetary transactions.



Model Fitted	Accuracy
Adaboost	46%
Gradient Boosting	100%
Random Forest	100%
Extreme Gradient Boosting	99%

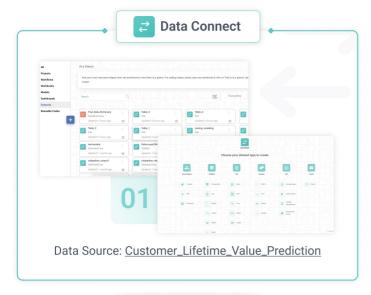
Applied multiple classification algorithms and then based on accuracy metric best fit is identified

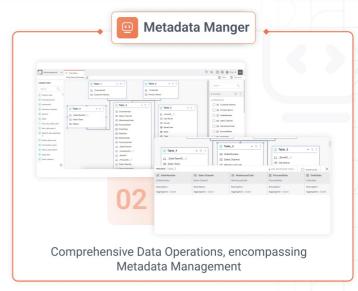
By identifying high-CLV customers, businesses can focus their marketing efforts, customer service, and retention programs on segments offering the greatest long-term value.

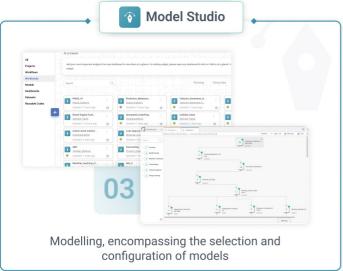
Multi Persona DSML Platform

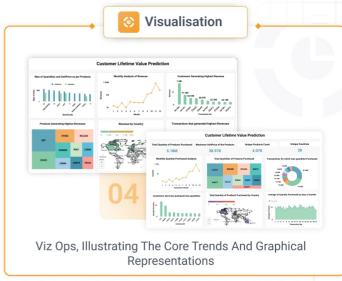
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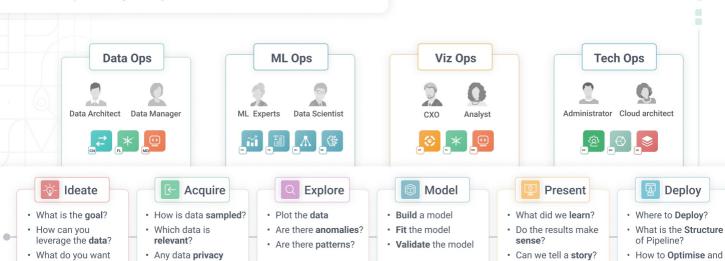






Agile Data Science

Encapsulating best practices, tools and methods



to predict?

issue?

Scale?

Deploy