Creating Total Purchase Amount Variable

Mathematical Formula:

Total purchase amount = Purchase frequency * average purchase amount

Python code based on the formula:

data['Total_Purchase_Amount'] = data['Frequency_of_Purchases'] * data['Average_Purchase_Amount']

Creating Customer Lifetime Value Variable

Mathematical Formula:

Customer lifetime value = Customer's Value * Customer's lifespan

Python code based on the formula:

data['CLV'] = data['Total_Purchase_Amount'] * data['Customer_Lifespan_Months']