## THE FUTURE SALES PREDICTION

## PROGRESS USING PYTHON

Phase 4 submission Documents

Project Title: The future sales prediction

## **User Authentication**

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## **User Authentication:**

Step 1 : Import libraries

A library is a collection of functions that can be added to your Python code and called as necessary, just like any other function.

Step 2: load and explore data
 Data exploration is a key aspect of data analysis and model building. Without spending significant time on understanding

the data.

• Step 3: Data Processing

Gathering and manipulating data elements to return useful, potentially valuable information.

Step 4: Choose and train the model
 One of the most common methods
 used to predict sales is regression analysis.

 This method involves using historical sales data to train a model that can predict future sales.

- Step 5: Make predictions
   Sales forecasting, decision trees can be used to make predictions about future sales by considering multiple factors that impact sales.
- Step 6: Evaluate the model
   The main models are trend analysis,
   regression analysis, and causal analysis.
- Step 7 : Make future sales prediction
  - 1)Sales cycle length forecasting. This forecasting method ranks opportunities based on how long a potential customer has been communicating with 2)the company. ...
  - 3)Intuitive forecasting. ...
  - 4) Historical forecasting. ...
  - 5)Opportunity stage forecasting. ...
  - 6) Pipeline forecasting. ...
  - 7) Multivariable forecasting.

```
import pandas as pd
from sklearn.model_selection import
    train_test_split
from sklearn linear model import
    LinearRegression
from sklearn metrics import mean_squared_error
# Load your sales data into a Pandas DataFrame
sales_data = pd.read_csv('sales_data_csv')
X = sales_data[['feature1', 'feature2']]
y = sales_data['sales']
X_train, X_test, y_train, y_test =
    train_test_split(X, y, test_size=0.2,
    random state=42)
model = LinearRegression()
model.fit(X_train, y_train)
predictions = model.predict(X_test)
```