

Visualizing Black-Box Models with SHAP



Step 0: Choose Data Source

Use sample Iris dataset or upload your own CSV file

Sample Dataset (Iris)

Upload CSV

Select CSV File:

Choose File

Ecommerce_Sales_Data_2024_2025.csv

Upload Dataset



Dataset Uploaded Successfully!

Filename: Ecommerce_Sales_Data_2024_2025.csv

Rows: 5000

Columns: 14

Features: Order ID, Order Date, Customer Name, Region, City, Category, Sub-Category,

Product Name, Quantity, Unit Price, Discount, Sales, Profit, Payment Mode

Select Target Column:

Region



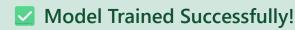


📊 Step 1: Train Model

Train a Random Forest classifier on the selected dataset

Train Model

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Accuracy: 64.50%

Training samples: 800

Features: 13

Feature names: Order ID, Order Date, Customer Name, City, Category, Sub-Category,

Product Name, Quantity, Unit Price, Discount, Sales, Profit, Payment Mode



Step 2: Generate SHAP Explanations

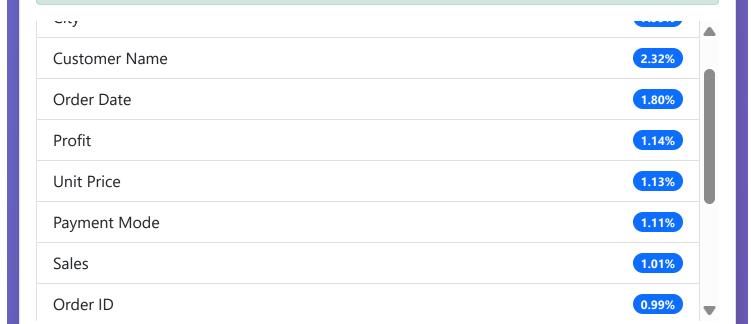
View global feature importance using SHAP values

Generate SHAP Plot

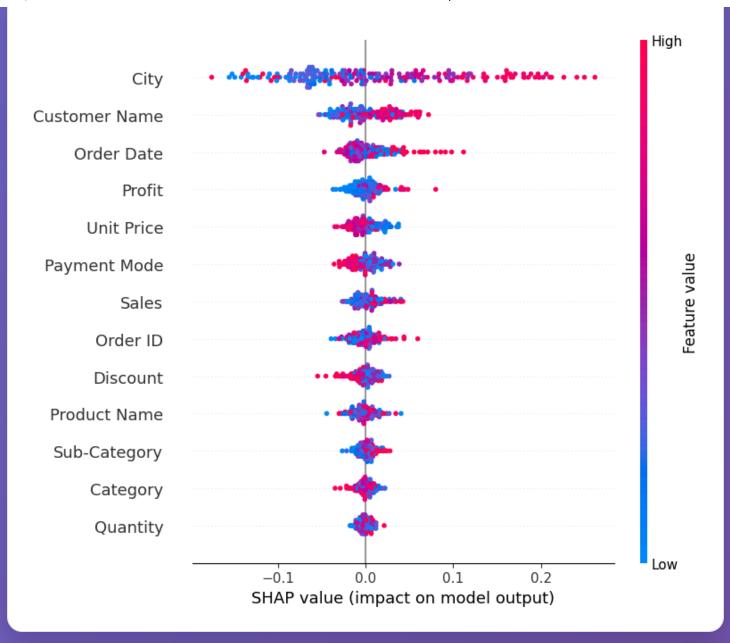


SHAP Explanations Generated!

Samples explained: 200



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© Step 3: Explain Single Prediction

See SHAP force plot for individual prediction

Select Instance:

2

Explain Instance

✓ Instance Explanation Generated!

Predicted Class: 0

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