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nlp-project 1

TensorFlow Warning Explatio

localhost:8888/notebooks/nlp-project%201.ipynb

JupyterLab Python 3 (ipykernel)

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```
[1]: import numpy as np
import pandas as pd

print("Libraries loaded")

Libraries loaded

[2]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

from statsmodels.tsa.seasonal import seasonal_decompose
from statsmodels.graphics.tsaplots import plot_acf, plot_pacf
from statsmodels.tsa.stattools import adfuller

sns.set(style="whitegrid")

[3]: # Load dataset
# =====
try:
    df = pd.read_csv("C:/Users/Shrakesh D/Downloads/archive (2)/retail_sales_dataset.csv")
except:
    print("Error: File not found.")
    exit()

print("Dataset Preview")
print(df.head())

Dataset Preview:
Transaction ID  Date Customer ID  Gender  Age Product Category \
0              1  2023-01-24  CUSTOM1  Male   34          Beauty
1              2  2023-02-27  CUSTOM2  Female  26          Clothing
2              3  2023-03-13  CUSTOM3  Male   50          Electronics
3              4  2023-05-25  CUSTOM4  Male   37          Clothing
4              5  2023-05-06  CUSTOM5  Male   30          Beauty

Quantity Price per unit  Total amount
0          3          50          150
1          2          500          1000
2          1           30           30
3          1          500          500
4          2           50          100

[4]: # Convert date column to datetime
df["date"] = pd.to_datetime(df["date"])
```

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```
[1]: # Convert date column to datetime
df["date"] = pd.to_datetime(df["date"])

# Sort by date
df = df.sort_values("date")

# Create daily sales time series
daily_sales = df.groupby("date")["Total amount"].sum()

print(daily_sales.head())

date
2023-01-01    3000
2023-01-02    1700
2023-01-03     500
2023-01-04    1200
2023-01-05    1100
Name: Total amount, dtype: int64

[2]: plt.figure(figsize=(12,5))
plt.plot(daily_sales)
plt.title("Daily Retail Sales Trend")
plt.xlabel("date")
plt.ylabel("Total sales")
plt.show()

Daily Retail Sales Trend

Total Sales
8000
6000
4000
2000
0
2023-01 2023-03 2023-05 2023-07 2023-09 2023-11 2024-01
Date
```



