

```
import pandas as pd
import streamlit as st
from prophet import Prophet
import matplotlib.pyplot as plt

st.set_page_config(page_title="StyleCast AI", layout="centered")
st.title("StyleCast AI – Forecasting Tool")

uploaded_file = st.file_uploader("Upload your sales CSV", type="csv")

if uploaded_file:
    df = pd.read_csv(uploaded_file)
    if set(['date', 'sku', 'sales']).issubset(df.columns):
        df['date'] = pd.to_datetime(df['date'])
        sku_list = df['sku'].unique()
        selected_sku = st.selectbox("Select SKU to Forecast", sku_list)

        sku_df = df[df['sku'] == selected_sku][['date', 'sales']]
        sku_df = sku_df.rename(columns={"date": "ds", "sales": "y"})

        model = Prophet()
        model.fit(sku_df)

        future = model.make_future_dataframe(periods=90)
        forecast = model.predict(future)
```

```
fig1 = model.plot(forecast)
```

```
st.pyplot(fig1)
```

```
st.subheader("Forecast Table")
```

```
st.dataframe(forecast[['ds', 'yhat', 'yhat_lower', 'yhat_upper']].tail(10))
```

```
csv = forecast[['ds', 'yhat', 'yhat_lower', 'yhat_upper']].to_csv(index=False).encode()
```

```
st.download_button("Download Forecast as CSV", csv, "forecast.csv", "text/csv")
```

```
else:
```

```
st.error("CSV must contain 'date', 'sku', and 'sales' columns.")
```