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import streamlit as st
import plotly.express as px
import pandas as pd
import os
import warnings
warnings.filterwarnings('ignore')
st.set_page_config(page_title="Superstore!!", page_icon=":bar_chart:",
layout="wide")
st.title(":bar_chart: Sample Superstore EDA")
st.markdown('<style>div.block-container{padding-top:1rem;}</style>',
unsafe_allow_html=True)
fl = st.file uploader(":file folder:Upload a file", type=(["csv", "txt",
"xlsx","xls"]))
if fl is not None:
    filename = fl.name
    st.write(filename)
    df = pd.read_csv(filename)
    os.chdir(r"C:\Users\anand\Desktop\ResoluteAI")
    df = pd.read_csv("Superstore.csv", encoding="ISO-8859-1")
col1, col2 = st.columns((2))
df["Order Date"] = pd.to_datetime(df["Order Date"])
#getting the min and max date
startDate = pd.to_datetime(df["Order Date"]).min()
endDate = pd.to_datetime(df["Order Date"]).max()
with col1:
    date1 = pd.to_datetime(st.date_input("Start Date", startDate))
with col2:
    date2 = pd.to_datetime(st.date_input("End Date", endDate))
df = df[(df["Order Date"]>=date1) & (df["Order Date"]<=date2)].copy()</pre>
st.sidebar.header("Choose your filter:")
# Create for Region
region = st.sidebar.multiselect("Pick your region ", df["Region"].unique())
if not region:
    df2 = df.copy()
else:
    df2 = df[df["Region"].isin(region)]
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# Create for State
state = st.sidebar.multiselect("Pick the State", df2["State"].unique())
if not state:
    df3 = df2.copy()
    df2 = df2[df2["State"].isin(state)]
# Create for City
city = st.sidebar.multiselect("Pick the City", df3["City"].unique())
#Filter the data based on Region, State and City
if not region and not state and not city:
    filtered df = df
elif not state and not city:
    filtered df = df[df["Region"].isin(region)]
elif not region and not city:
    filtered_df = df[df["State"].isin(state)]
elif state and city:
   filtered df = df3[df["State"].isin(state) & df3["City"].isin(city)]
elif region and city:
    filtered_df = df3[df["Region"].isin(region) & df3["City"].isin(city)]
elif state and region:
    filtered_df = df3[df["State"].isin(state) & df3["Region"].isin(region)]
elif city:
    filtered df = df3[df3["City"].isin(city)]
else:filtered_df = df3[df3["Region"].isin(region) & df3["State"].isin(state) &
df3["City"].isin(city)]
category_df = filtered_df.groupby(by = ["Category"], as_index =
False)["Sales"].sum()
with col1:
    st.subheader("Category wise sales")
    fig = px.bar(category_df, x = "Category", y = "Sales", text =
['${:,.2f}'.format(x) for x in category_df["Sales"]],
                 template="seaborn")
    st.plotly_chart(fig,use_container_width=True, height =200)
with col2:
    st.subheader("Region wise Sales")
    fig = px.pie(filtered_df, values="Sales", names="Region", hole=0.5)
    fig.update_traces(text=filtered_df["Region"], textposition = "outside")
    st.plotly_chart(fig, use_container_width=True)
    cl1, cl2 = st.columns(2)
    with cl1:
        with st.expander("Category_ViewData"):
           st.write(category df.style.background gradient(cmap="Blues"))
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csv = category_df.to_csv(index = False).encode('utf-8')
           st.download_button("Download Data", data = csv,
file_name="Category.csv", mime="text/csv",
                           help='Click here to download the data as CSV file')
    with cl2:
        with st.expander("Region ViewData"):
            region = filtered_df.groupby(by = "Region", as_index =
False)["Sales"].sum()
            st.write(region.style.background gradient(cmap="Oranges"))
            csv = region.to_csv(index = False).encode('utf-8')
            st.download button("Download Data", data = csv, file name =
"Region.csv", mime = "text/csv",
                           help = 'Click here to download the data as a CSV
file')
filtered_df["month_year"] = filtered_df["Order Date"].dt.to_period("M")
st.subheader('Time series Analysis')
linechart =
pd.DataFrame(filtered_df.groupby(filtered_df["month_year"].dt.strftime("%y:%b"
))["Sales"].sum()).reset_index()
fig2 = px.line(linechart, x = "month_year", y = "Sales",
labels={"Sales":"Amount"}, height = 500, width = 1000, template="gridon")
st.plotly chart(fig2,use container width=True)
with st.expander("View Data of Time Series"):
    st.write(linechart.T.style.background_gradient(cmap="green"))
    csv =linechart.to csv(index = False).encode('utf-8')
    st.download_button("Download Data", data = csv,
file name="TimeSeries.csv", mime="text/csv")
# Create a tree map based on Region, Category and Sun-category
st.subheader("Hierarchical view of the Sales using TreeMap")
fig3 = px.treemap(filtered_df, path = ["Region", "Category", "Sub-Category"],
values = "Sales", hover_data=["Sales"],
                  color="Sub-Category")
fig3.update_layout(width = 800, height = 650)
st.plotly_chart(fig3,use_container_width=True)
chart1, chart2 = st.columns(2)
with chart1:
    st.subheader('Segment wise Sales')
    fig = px.pie(filtered_df, values ="Sales", names="Segment",
template="plotly dark")
    fig.update_traces(text = filtered_df["Segment"], textposition="inside")
    st.plotly chart(fig,use container width=True)
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with chart2:
    st.subheader('SCategory wise Sales')
    fig = px.pie(filtered_df, values ="Sales", names="Category",
template="gridon")
    fig.update_traces(text = filtered_df["Category"], textposition="inside")
    st.plotly_chart(fig,use_container_width=True)
import plotly.figure factory as ff
st.subheader(":point_right: Month wise Sub-Category Sales Summary")
with st.expander("Summary_Table"):
    df sample =
df[0:5][["Region","State","City","Category","Sales","Profit","Quantity"]]
    fig = ff.create_table(df_sample, colorscale = "Cividis")
    st.plotly chart(fig, use container width=True)
    st.markdown("Month wise sub-Category Table")
    filtered_df["month"] = filtered_df["Order Date"].dt.month_name()
    sub_category_Year = pd.pivot_table(data = filtered_df, values = "Sales",
index = ["Sub-Category"],columns = "month")
    st.write(sub_category_Year.style.background_gradient(cmap="Blues"))
# Create a scatter plot
data1 = px.scatter(filtered_df, x = "Sales", y = "Profit", size = "Quantity")
data1['layout'].update(title="Relationship between Sales and Profits using
Scatter Plot.",
                       titlefont = dict(size=20),xaxis =
dict(title="Sales",titlefont=dict(size=19)),
                       yaxis = dict(title = "Profit", titlefont =
dict(size=19)))
st.plotly_chart(data1,use_container_width=True)
with st.expander("View Data"):
    st.write(filtered_df.iloc[:500,1:20:2].style.background_gradient(cmap="Ora
nges"))
# Download orginal DataSet
csv = df.to csv(index = False).encode('utf-8')
st.download_button('Download Data', data = csv, file_name = "Data.csv", mime =
"text/csv")
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