import streamlit as st

import pandas as pd

import numpy as np

import plotly.express as px

st.title("Data Analysis of American Airways 📈")

st.sidebar.title("Data Analysis of American Airways 📈")

st.markdown("Analysis of Customer's feedbacks 🏴")

st.sidebar.markdown("Analysis with Python 🏴")

DATA\_URL = ("Tweets.csv")

@st.cache(persist=True)

def load\_data():

data = pd.read\_csv(DATA\_URL)

data['tweet\_created'] = pd.to\_datetime(data['tweet\_created'])

return data

data = load\_data()

st.sidebar.subheader("Show random tweet")

random\_tweet = st.sidebar.radio('Sentiment 😊😐😤', ('positive', 'neutral', 'negative'))

st.sidebar.markdown(data.query('airline\_sentiment == @random\_tweet')[["text"]].sample(n=1).iat[0, 0])

st.sidebar.markdown("### Number of tweets by Sentiment")

select = st.sidebar.selectbox('Visualization type', ['Histogram', 'Pie Chart'], key='1')

sentiment\_count = data['airline\_sentiment'].value\_counts()

sentiment\_count = pd.DataFrame({'Sentiment': sentiment\_count.index, 'Tweets': sentiment\_count.values})

if not st.sidebar.checkbox("Hide", True):

st.markdown("### Number of tweets by Sentiment")

if select == "Histogram":

fig = px.bar(sentiment\_count, x='Sentiment', y='Tweets', color='Tweets', height=500)

st.plotly\_chart(fig)

else:

fig = px.pie(sentiment\_count, values='Tweets', names='Sentiment')

st.plotly\_chart(fig)

st.sidebar.subheader("When and where are the users tweeting from 🌎")

hour = st.sidebar.slider("Hour of day", 0, 23)

modified\_data = data[data['tweet\_created'].dt.hour == hour]

if not st.sidebar.checkbox("Close", True, key='0'): #rectified

st.markdown("### Tweets location based on the time of day")

st.markdown("%i tweets between %i:00 and %i:00" % (len(modified\_data), hour, (hour + 1) % 24))

st.map(modified\_data)

if st.sidebar.checkbox("Show raw data", False):

st.write(modified\_data)

st.sidebar.subheader("BreakDown airline tweets by Sentiment ✈️")

choice = st.sidebar.multiselect('Pick airlines',

('US Airways', 'United', 'American', 'Southwest', 'Delta', 'Virgin America'))

if len(choice) > 0:

choice\_data = data[data.airline.isin(choice)]

fig\_choice = px.histogram(choice\_data, x='airline', y='airline\_sentiment', histfunc='count',

color='airline\_sentiment', facet\_col='airline\_sentiment', height=600, width=600)

st.plotly\_chart(fig\_choice)

else:

st.header("⬅️ Click on the options to get started")