

1. Plot candlestick charts for all coins for their respective timeframe provided in dataset.

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In [ ]: import pandas as pd
import matplotlib.pyplot as plt
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In [ ]: bitcoin = pd.read_csv('D:\python\data\coin_Bitcoin.csv')
ethereum = pd.read_csv('D:\python\data\coin_Ethereum.csv')

Litecoin = pd.read_csv('D:\python\data\coin_Litecoin.csv')
Monero = pd.read_csv('D:\python\data\coin_Monero.csv')
Ripple = pd.read_csv('D:\python\data\coin_Ripple.csv')

Solana = pd.read_csv('D:\python\data\coin_Solana.csv')
Stellar = pd.read_csv('D:\python\data\coin_Stellar.csv')
Tether = pd.read_csv('D:\python\data\coin_Tether.csv')
Tron = pd.read_csv('D:\python\data\coin_Tron.csv')
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In [ ]: import plotly.graph_objects as go
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In [ ]: fig = go.Figure(data=[go.Candlestick(x=bitcoin['Date'],
                                             open= bitcoin['Open'],
                                             high= bitcoin['High'],
                                             low=bitcoin['Low'],
                                             close = bitcoin['Low'])])
fig.update_layout(title = 'Bitcoin', yaxis_title = 'Price', xaxis_title='Duration')
fig.show()
fig1 = go.Figure(data=[go.Candlestick(x=ethereum['Date'],
                                       open= ethereum['Open'],
                                       high= ethereum['High'],
                                       low=ethereum['Low'],
                                       close = ethereum['Low'])])
fig1.update_layout(title = 'ethereum', yaxis_title = 'Price', xaxis_title='Duration')
fig1.show()

fig2 = go.Figure(data=[go.Candlestick(x=Litecoin['Date'],
                                       open= Litecoin['Open'],
                                       high= Litecoin['High'],
                                       low=Litecoin['Low'],
                                       close = Litecoin['Low'])])
fig2.update_layout(title = 'Litecoin', yaxis_title = 'Price', xaxis_title='Duration')
fig2.show()

fig3 = go.Figure(data=[go.Candlestick(x=Monero['Date'],
                                       open= Monero['Open'],
                                       high= Monero['High'],
                                       low=Monero['Low'],
                                       close = Monero['Low'])])
fig3.update_layout(title = 'Monero', yaxis_title = 'Price', xaxis_title='Duration')
fig3.show()

fig4 = go.Figure(data=[go.Candlestick(x=Ripple['Date'],
                                       open= Ripple['Open'],
                                       high= Ripple['High'],
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        low=Ripple['Low'],
        close = Ripple['Low']]))
fig4.update_layout(title = 'Ripple', yaxis_title = 'Price', xaxis_title='Duration')
fig4.show()

fig5 = go.Figure(data=[go.Candlestick(x=Solana['Date'],
        open= Solana['Open'],
        high= Solana['High'],
        low=Solana['Low'],
        close = Solana['Low']]))
fig5.update_layout(title = 'Solana', yaxis_title = 'Price', xaxis_title='Duration')
fig5.show()

fig6 = go.Figure(data=[go.Candlestick(x=Stellar['Date'],
        open= Stellar['Open'],
        high= Stellar['High'],
        low=Stellar['Low'],
        close = Stellar['Low']]))
fig6.update_layout(title = 'Stellar', yaxis_title = 'Price', xaxis_title='Duration')
fig6.show()

fig7 = go.Figure(data=[go.Candlestick(x=Tether['Date'],
        open= Tether['Open'],
        high= Tether['High'],
        low=Tether['Low'],
        close = Tether['Low']]))
fig7.update_layout(title = 'Tether', yaxis_title = 'Price', xaxis_title='Duration')
fig7.show()

fig8 = go.Figure(data=[go.Candlestick(x=Tron['Date'],
        open= Tron['Open'],
        high= Tron['High'],
        low=Tron['Low'],
        close = Tron['Low']]))
fig8.update_layout(title = 'Tron', yaxis_title = 'Price', xaxis_title='Duration')
fig8.show()
```