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import yfinance as yf

import pandas as pd

import matplotlib.pyplot as plt


def calculate_macd(data, short_window=12, long_window=26, signal_window=9):

    short_ema = data['Close'].ewm(span=short_window, adjust=False).mean()

    long_ema = data['Close'].ewm(span=long_window, adjust=False).mean()

    macd = short_ema - long_ema

    signal_line = macd.ewm(span=signal_window, adjust=False).mean()

    macd_histogram = macd - signal_line

    return macd, signal_line, macd_histogram
```