Predict the trading day is up or down based on historical data

Features:

Month, Day of the month, Date of the week,

(Open-Close)/Close, (High-Close)/Close, (Low- Close)/Close,

Volume/Avg (Volume, 10days), (Close-Prev Close)/(Prev Close)

//Prev Day

(Open-Close)/Close, (High-Close)/Close, (Low- Close)/Close,

Volume/Avg (Volume, 10days), (Close-Prev Close)/(Prev Close)

//Two Days ago

(Open-Close)/Close, (High-Close)/Close, (Low- Close)/Close,

Volume/Avg (Volume, 10days), (Close-Prev Close)/(Prev Close)

//Three Days ago

(Open-Close)/Close, (High-Close)/Close, (Low- Close)/Close,

Volume/Avg (Volume, 10days), (Close-Prev Close)/(Prev Close)