	What This No	ding this file as a PDF or on GitHub: the reader may use the following link if he/she wants to interact with the graphs of intended graphs: <a href="https://nbviewer.jupyter.org/github/dagzk/lchimoku">https://nbviewer.jupyter.org/github/dagzk/lchimoku</a> Backtest/blob/main/lchimoku%20Backtesting.ipy han 'Dan' Kendirli, Simurgh SA on December 20th 2020.    otebook Shows:
	<ul> <li>Simple crypt</li> <li>Explanation</li> </ul> Introduction The goal of this production	financial data without credentials tocurrency analysis and use of Ichimoku for backtesting strategy  On:  project is to get a sense of how to easily get financial data, get a good sense of what the Ichimoku strategy is about artising Python. I hope the reader gains some insights about the topic. Below, I put three cryptocurrency related news link
	<ul> <li>Cryptocurrer</li> <li>Cryptocurrer</li> <li>Binance Trace</li> </ul> There are other w strategies such a	ncy Market Caps
	If the reader does Dukascopy). I've data options regausing fancy Mach channels or resorplace). Using A.I. and the Law of Lastrategy and how	isn't want to bother coding, they can use several websites where those functions are automatically provided (i.e. opted for Yahoo Finance to download data as there is no need to set up credentials. Note that the Binance API has marding cryptocurrencies. There are many people achieving projects and papers showing how to automate their trades, hine Learning models or performing a sentiment analysis (i.e. Python for Trading YouTube Channel and A LOT of other burces). In my opinion though, these projects barely perform and if they performed well, they wouldn't be public in the following is useless to perform in the field of risks, there is just too many factors (fat-tail distribution of ever arge Numbers for one) and human experience is needed. Again, this notebook aims to learn about the Ichimoku ow to apply it to cryptocurrencies with Python, it does NOT aim at telling people what to do with their money.  In the remember one thing before starting:  TS ARE WRONG, SOME MIGHT BE USEFUL. HOWEVER, SOME ARE VERY HARMFUL.
[15]:	import numpy import pandas import dateti from datetime import os from time imp  # Import fina import yfinar from yahoofir  # Import visu import matple import seabor %matplotlib i # Import plot import plotly	s as pd ime e import timedelta  port sleep  ance libraries nce as yf nancials import YahooFinancials  ualization libraries otlib.pyplot as plt rn as sns inline tly y.plotly as py
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	<pre>df_ext.tail()  df_combined =</pre>	<pre>_index(drop=False, inplace=True) )  = pd.DataFrame({'BTC': df_ext['Close']['BTC-USD'],</pre>
[9]:	<pre># Scale data from sklearn min_max_scale scaled = min_ df_combined_s  crypto = df_c plt.figure(fi for c in cry     plt.plot  plt.title('Bi plt.xlabel('I</pre>	and plot Closing Prices over Time of Bitcoin and Ethereum import preprocessing er = preprocessing.MinMaxScaler(feature_range= (0,100)) _max_scaler.fit_transform(df_combined) scaled = pd.DataFrame(scaled, columns=df_combined.columns)  combined_scaled igsize = (12.2, 4.5)) ypto.columns.values: (crypto[c], label = c)  itcoin & Ethereum Scaled Closing Price Over Time') Days')
	We can observe a "correlations" be attempting to find	a pattern between BTC and ETH as ETH seems to always follow BTC's lead throughout time so far. We can showcase etween multiple coins through heatmaps but this will be skipped in this notebook as there are many other projects d them. Something good to know and notice is that until now, Bitcoin has been less volatile and has given better return
	Why Ichimok There are multiple However, we will Ichimoku Cloud a It's important to I	ng Technical Analysis Using Ichimoku:  ku?  le TA methods such as the Relative Strength Index (RSI), Simple Moving Average (SMA), On-Balance Volume (OBV), et focus on Ichimoku here as it provides support/resistance levels that can be projected into the future. This sets the apart from many other technical indicators that only provide support and resistance levels for the current date and time look at the bigger trends to see how the smaller trends fit within them. For example, during a very strong downtrend, to the cloud or slightly above it, temporarily, before falling again. Only focusing on the indicator would mean missing
	their momentum	at the price was under strong longer-term selling pressure. Some traders also like to use the RSI or other tools to conf theories. Let us not forget that one indicator is not better than another, they just provide information in different ways. bok will shed light and new ideas to the reader.
	<ul> <li>The Ichimoking direction. It contacts attempts to the Ichimoking.</li> <li>The Ichimoking.</li> </ul>	ats explaining basics of the Ichimoku Cloud are given below:  The Cloud is a collection of technical indicators that show support and resistance levels, as well as momentum and trend does this by taking multiple averages and plotting them on the chart. It also uses these figures to compute a "cloud" we forecast where the price may find support or resistance in the future.  The Cloud is composed of five lines or calculations, two of which compose a cloud where the difference between the two
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I personally think that this strategy is interesting to keep in mind and hope once again that this notebook has been full of useful information

Paylaş

All this backtesting aside, here is a song I wrote with my band below to cheer you up after all this reading, hope you enjoy :-)

In [13]: # Link to video: https://www.youtube.com/watch?v=C05-eYiYlaA&feature=emb\_title

from IPython.display import YouTubeVideo
YouTubeVideo('C05-eYiY1aA', width = 500, height = 300)

In [14]: # This function helps displaying plotly graphs on the HTML file

Out[14]: ['[NbConvertApp] Converting notebook Ichimoku Backtesting.ipynb to html', '[NbConvertApp] Writing 948604 bytes to Ichimoku Backtesting.html']

<script src="/static/components/requirejs/require.js"></script>

plotly: 'https://cdn.plot.ly/plotly-1.5.1.min.js?noext',

def configure\_plotly\_browser\_state():

requirejs.config({

display(IPython.core.display.HTML('''

paths: {
 base: '/static/base',

import IPython

<script>

},
});

</script>

# Convert into HTML file
!!jupyter nbconvert \*.ipynb

configure\_plotly\_browser\_state

The Holyrooders - Melody of a ...

for the reader.

**Bonus:** 

Out[13]: