**INSTALLATION GUIDE**

Please follow the following steps that are needed for before running the code.

Make sure that you have PyCharm or Spyder installed on your system. As we are suing Tensorflow for implementing the project, the following steps mentioned are for a windows 64bit system with an Intel processor.

**Step 1**

Create a free Binance Account.

Visit <https://accounts.binance.com/en/register> and enter your details.

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Enable the two-factor authentication and install the Google Authenticator.

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**Step 2**

Obtaining an API key

Click on the profile icon on the top right-hand side of the screen. From there, select API Management.

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Next, you will be asked to create a label for the API key.

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The API key will be created as follows-

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**Step 3**

Store the API keys in config.py file.

binance\_api=your\_api\_key\_here

binance\_secret=your\_api\_secret\_here

These keys will be used while interacting with Binance to fetch the data.

**Step 4**

Installing python environment.

For this project, we recommend installing the Anaconda Navigator as it is easier to work with.

Visit the webpage <https://www.anaconda.com/products/individual>

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Click on Download.

The download will begin shortly and then run the .exe file to complete the installation.

Once it is downloaded, open the Anaconda Navigator in your computer. Spyder or Pycharm can be used to run the project.

It will look something like this-

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**Step 5**

Installing the necessary libraries-

* Binance API: To install the Binance API run the following command-

pip install python-binance

* TA-lib package: This is originally written in C++ but there exists a wrapper which can be used to interact with the package in python. Run the following command.

pip install TA-lib

For Mac OS X-

brew install ta-lib

If you get build errors like this in windows-

func.c:256:28: fatal error: ta-lib/ta\_libc.h: No such file or directory compilation terminated.

It typically means that it can't find the underlying TALib library and needs to be installed manually :

***For Windows***-

Check your python version by typing python --version in the Anaconda prompt.

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Check your Windows Architecture as 64-bit or 32-bit.

Download Ta-lib package from <https://www.lfd.uci.edu/~gohlke/pythonlibs/#ta-lib>

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Cp38 means Python Version 3.8 and win\_amd64 implied 64-bit operating system. So we installed the TA\_Lib-0.4.19-cp38-cp38-win\_amd64.whl

By default, the file gets stored in the “Downloads folder”. Move the file to the location as shown in the Anaconda prompt. For example, in this case – C:/Users/aayus

Next run the command pip install TA\_Lib-0.4.19-cp38-cp38-win\_amd64.whl in the Anaconda prompt.

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This will install Ta\_Lib in your system so that we can import and use it in the project.

**Step 6:**

Make sure that all the libraries are installed. There is no specific or separate step for this we have incorporated the libraries installation step into the code. Just make sure that none of the libraries go uninstalled.

