

why??

Investing is study of companies, their financial performance & the evaluating the probability of the stock price of the company rising over periods of time.

Generally in order to evaluate company growth investor will do lots of research before investing.

Some may research on companies financial performances .. some may predict from past graph moments (how ? there are so many indicators available just to predict next movement . each and every indicator works differently it is not sure which tools will give best result(profit))

Some investors may do both .

Indicators in graph how...??? Below graph uses fibonacci indicator(those 5 horizontal lines) to predict next moment



Graph... lines...Ahhh irritating...??? **in this picture only one indicator is used but there are multiple no. of indicators ..available..

So a newbie who wants to invest may not be able to understand all these things in limited time..their might be chances till newbie understand all these things he may loss opportunities

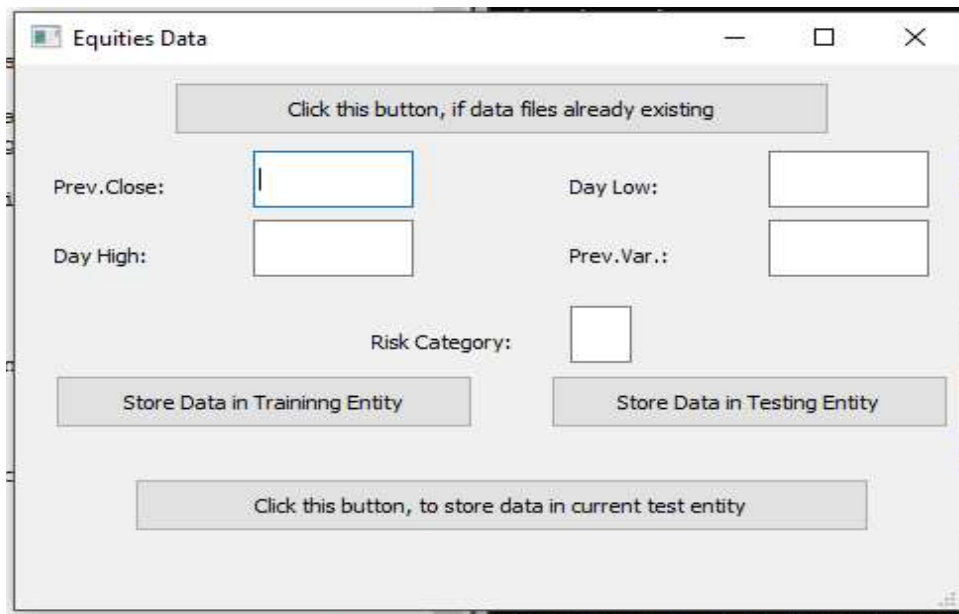
How and what???

So in our project we are developing a tool which will predict risk based on historical data

Historical data...??

1. Data entry module

This module will help to create historical data... user needs to enter data and store it in **“training or testing”** by clicking any of those two button



The screenshot shows a window titled "Equities Data" with a standard Windows interface (minimize, maximize, close buttons). Inside the window, there is a button at the top that says "Click this button, if data files already existing". Below this, there are four input fields arranged in two columns: "Prev.Close:" (with a text box containing the number "1"), "Day Low:" (with an empty text box), "Day High:" (with an empty text box), and "Prev.Var.:" (with an empty text box). Below these fields is a "Risk Category:" label next to a small square input field. At the bottom, there are two buttons: "Store Data in Training Entity" on the left and "Store Data in Testing Entity" on the right. A third button, "Click this button, to store data in current test entity", is located at the very bottom of the window.

Using this module user can give input.....input format i think both of u know

Queries:

1. in **"training data and test data"** files while giving input we are also giving risk factor..(0 or 1 or 2).. so on what basis user will give risk factor??

Ans: It depends on users discretion. In most of the cases, if the day's variance is too high, then the stock is classified as high risk.

2.we are making predictions from historical data How tensorflow will be calculating in our project I mean is their any "mathematical operations" are happening? Like "taking average" of all values related to daystart or dayend or risk value....or any different ways?

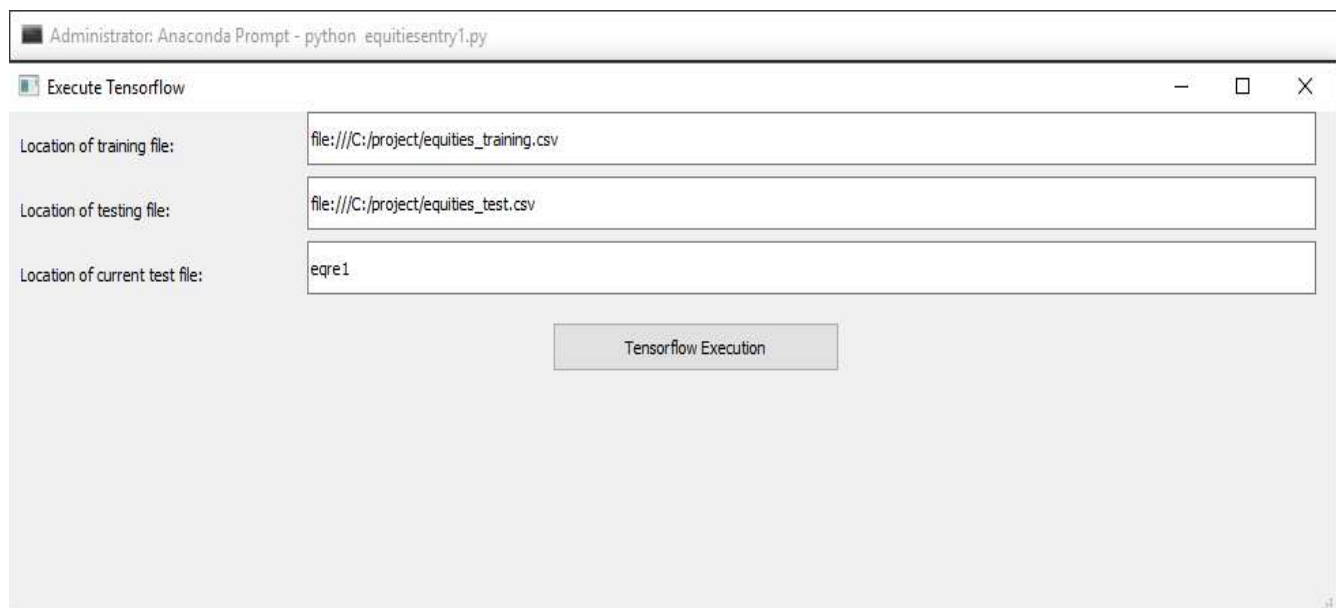
Ans: Tensorflow constructs a neural net and train it using the last 4 months data.

The predictions are done through neural net propagation.

2.The Analysis module is used to analyze and identify suitable banking equities based on the investor needs. Already pre created data will be taken to make analysis.

In first step we are creating training and testing file.. So In this above step if we click **“click this button if files already exist”** from above pic then this module will launch.

Here we need to add path of files which are created by us



After clicking “Tensorflow execution” button following results will be generated.

To understand how tensorflow exactly watch this once.....in this video data set is same but values different

<https://www.youtube.com/watch?v=yX8KuPZCAMo>

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Select Administrator: Anaconda Prompt

(tensorflow) C:\project>python equitiesentry1.py
Downloading data from file:///C:/project/equities_training.csv
8192/2034 [=====] - 0s 0us/step
Downloading data from file:///C:/project/equities_test.csv
8192/554 [=====] - 0s 0us/step

INFO:tensorflow:Using default config.
WARNING:tensorflow:Using temporary folder as model directory: C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap
INFO:tensorflow:Using config: {'_global_id_in_cluster': 0, '_service': None, '_save_checkpoints_secs': 600, '_log_step_count_steps': 100, '_keep_checkpoint_every_n_hours': 10000, '_task_type': 'worker', '_num_ps_replicas': 0, '_session_config': None, '_evaluation_master': '', '_num_worker_replicas': 1, '_keep_checkpoint_max': 5, '_cluster_spec': <tensorflow.python.training.server_lib.ClusterSpec object at 0x000001E48737CF28>, '_train_distribute': None, '_master': '', '_is_chief': True, '_task_id': 0, '_save_checkpoints_steps': None, '_save_summary_steps': 100, '_device_fn': None, '_model_dir': 'C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap', '_tf_random_seed': None}
INFO:tensorflow:Calling model_fn.
INFO:tensorflow:Done calling model_fn.
INFO:tensorflow:Create CheckpointSaverHook.
INFO:tensorflow:Graph was finalized.
2018-09-09 19:52:26.107730: I T:\src\github\tensorflow\tensorflow\core\platform\cpu_feature_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2
INFO:tensorflow:Running local_init_op.
INFO:tensorflow:Done running local_init_op.
INFO:tensorflow:Saving checkpoints for 0 into C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap\model.ckpt.
INFO:tensorflow:loss = 740.0862, step = 1
INFO:tensorflow:global_step/sec: 367.759
INFO:tensorflow:loss = 19.160046, step = 101 (0.272 sec)
INFO:tensorflow:global_step/sec: 543.622
INFO:tensorflow:loss = 11.948958, step = 201 (0.188 sec)
INFO:tensorflow:global_step/sec: 532
INFO:tensorflow:loss = 7.5291076, step = 301 (0.184 sec)
INFO:tensorflow:global_step/sec: 521.007
INFO:tensorflow:loss = 10.244088, step = 401 (0.192 sec)
INFO:tensorflow:global_step/sec: 500.117
INFO:tensorflow:loss = 10.245456, step = 501 (0.200 sec)
INFO:tensorflow:global_step/sec: 500.136
INFO:tensorflow:loss = 4.74523, step = 601 (0.200 sec)
INFO:tensorflow:global_step/sec: 531.997
INFO:tensorflow:loss = 8.842629, step = 701 (0.192 sec)
INFO:tensorflow:global_step/sec: 480.932
INFO:tensorflow:loss = 9.072023, step = 801 (0.204 sec)
INFO:tensorflow:global_step/sec: 480.891
INFO:tensorflow:loss = 8.666681, step = 901 (0.212 sec)
INFO:tensorflow:Saving checkpoints for 1000 into C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap\model.ckpt.
INFO:tensorflow:Loss for final step: 5.1679406.
INFO:tensorflow:Calling model_fn.

INFO:tensorflow:loss = 10.244088, step = 401 (0.192 sec)
INFO:tensorflow:global_step/sec: 500.117
INFO:tensorflow:loss = 10.245456, step = 501 (0.200 sec)
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INFO:tensorflow:Saving checkpoints for 1000 into C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap\model.ckpt.
INFO:tensorflow:Loss for final step: 5.1679406.
INFO:tensorflow:Calling model_fn.
INFO:tensorflow:Done calling model_fn.
INFO:tensorflow:Starting evaluation at 2018-09-09-14:22:33
INFO:tensorflow:Graph was finalized.
INFO:tensorflow:Restoring parameters from C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap\model.ckpt-1000
INFO:tensorflow:Running local_init_op.
INFO:tensorflow:Done running local_init_op.
INFO:tensorflow:Finished evaluation at 2018-09-09-14:22:34
INFO:tensorflow:Saving dict for global step 1000: accuracy = 0.96666664, average_loss = 0.0853759, global_step = 1000, loss = 2.561277
INFO:tensorflow:Saving 'checkpoint_path' summary for global step 1000: C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap\model.ckpt-1000

Test set accuracy: 0.967

INFO:tensorflow:Calling model_fn.
INFO:tensorflow:Done calling model_fn.
INFO:tensorflow:Graph was finalized.
INFO:tensorflow:Restoring parameters from C:\Users\masad\AppData\Local\Temp\tmpzi8gr2ap\model.ckpt-1000
INFO:tensorflow:Running local_init_op.
INFO:tensorflow:Done running local_init_op.

Prediction is "lrisk" (99.3%), expected "lrisk"
Prediction is "mrisk" (99.4%), expected "mrisk"
Prediction is "hrisk" (96.9%), expected "hrisk"

(tensorflow) C:\project>
```

So what is low risk??.... In stocks if risk is low means **equity changes will happen slowly** if you buy 10rs stock today it might be 10.20 paise or 9.80 paise after 10days .. so with change loss will be less and gain also less

In mrisk Changes will be little faster and little slower...

In hrisk... changes will happen rapidly... it can be loss or gain....if you invest 10 rs today ... it might be 12.5rs by 3 days or 7.5 by 3 days (actually traders will take out their money if their is 25% gain in value they invested or 25% loss in value they invested it is because of **fear of losing money**)