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# Setting up and running v0.1

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.Testing process

# Setting up and running P1

## A screenshot of a computer program AI-generated content may be incorrect.Training the model

## Testing the model

A screen shot of a computer

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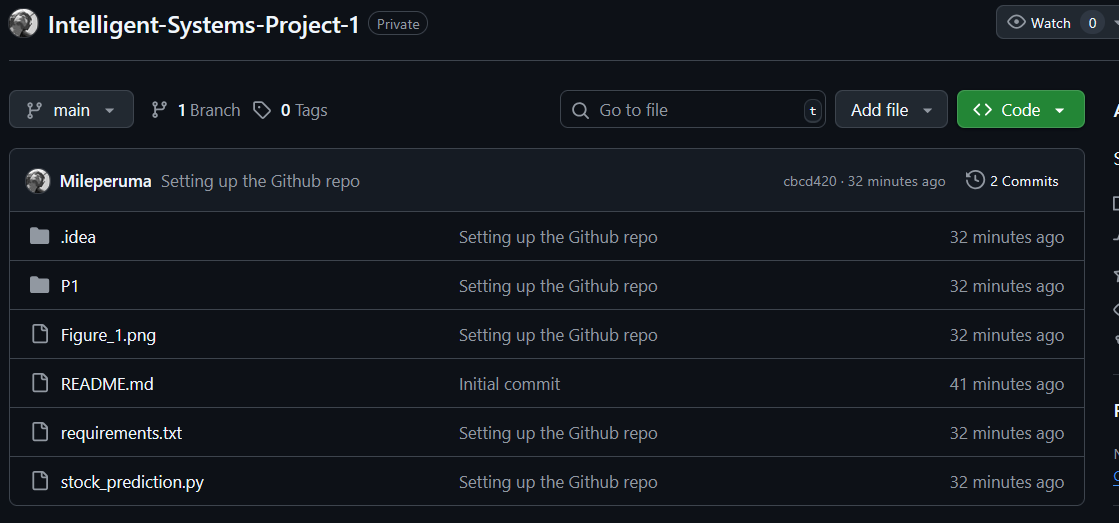
A screen shot of a computer

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# Setting up the Github Repo

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# Comparison

**Model v.01**

This model was designed to predict daily stock prices over a test period. It gives predictions for each day and also shows a graph where you can see how close the predictions are to the real prices. That visual output really helped me understand if the model was learning properly.

Some basic stats were also shown, like how much the predictions differ from actual prices. It’s good for checking how accurate the model is in general.

**Pros**:

* The line graph shows clearly where the prediction and real prices match or differ.
* It gives a solid understanding of the model’s general prediction accuracy.

**Cons**:

* It doesn’t really tell you what to do with those predictions — like when to buy or sell.
* I tried to calculate the trend direction accuracy (whether the model got the ups and downs right), but it gave an error.

**Model P1**

* Stock: AAPL (Apple Inc.)
* Model Type: LSTM (custom configuration with parameters: seq-50, step-15, layers-2, units-256)
* Evaluation Metrics:
* Mean Absolute Error (MAE): 1.34
* Directional Accuracy: 52.38%
* Trading Simulation Metrics:
  + Total Profit: $1174.64
  + Buy Profit: $1018.01
  + Sell Profit: $156.63
  + Profit per Trade: $0.52
* Prediction Output: Forecast of the stock price 15 days into the future

This version was different. It didn’t try to predict every day’s price. Instead, it was trained to predict what the stock price might be 15 days into the future. It also includes some kind of simple trading simulation, where it calculates things like how much profit you could make if you bought or sold based on the model’s forecast.

I didn’t get a graph from this one, but it did give practical info like:

* Future price prediction
* Directional accuracy (whether it got the trend right or not)
* And even estimated profit

**pros**:

* More practical if you're thinking of using it for real-world trading or investing.
* The future forecast helps with decision-making.
* Shows if the trend (going up or down) is correct.
* Gives a rough idea of how much profit a person could have made.

**Not-so-good things**:

* No visual output, so I couldn’t see the predictions versus actual prices easily.
* It didn’t provide the same academic-style accuracy scores as v0.1.