

Summary of performance evaluation

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I took ten datasets to evaluate its performance. For each datasets, the program takes 10 observations and the 11th day to predict the stock price by using Bayesian curve fitting. Then the program calculated the absolute mean error and relative error for each dataset. The result is as follow:

```
/Users/huangsuyu/anaconda/bin/python /Users/huangsuyu/Documents/CS568/BayesianCurveFitting.py
----- the performance of predicting the 11th day High price of AAPL -----
absolute mean error is : 0.518143247977406
relative error is : 0.003026360766268796
----- the performance of predicting the 11th day High price of AMZN -----
absolute mean error is : 20.493732565260643
relative error is : 0.012734642027608203
----- the performance of predicting the 11th day High price of BABA -----
absolute mean error is : 2.6354091813472564
relative error is : 0.015472372162287982
----- the performance of predicting the 11th day High price of BE -----
absolute mean error is : 0.14529396273865025
relative error is : 0.014106209974626237
----- the performance of predicting the 11th day High price of D -----
absolute mean error is : 0.29645924950945357
relative error is : 0.004041156563090199
----- the performance of predicting the 11th day High price of GE -----
absolute mean error is : 0.04506293317341914
relative error is : 0.00461728594554387
----- the performance of predicting the 11th day High price of IBM -----
absolute mean error is : 1.4343519497246575
relative error is : 0.010613037465060173
----- the performance of predicting the 11th day High price of MU -----
absolute mean error is : 0.08359007101161353
relative error is : 0.0021505035544666087
----- the performance of predicting the 11th day High price of TME -----
absolute mean error is : 0.5998361918347666
relative error is : 0.03857467471606216
----- the performance of predicting the 11th day High price of TSLA -----
absolute mean error is : 11.055900700402901
relative error is : 0.034701508136201674
```