

Bayesian Prediction Demo

Class

ECE 568 - Software Engineering of Web Applications

Instructor

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Student

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Assignment

HW3 Demo

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For the test data set, I pulled stock information from Yahoo Finance for various stocks. I also tested the five datasets listed in the rubric.

I used the following equations to calculate absolute error and relative error

$$\text{Absolute error} = |\text{Predicted value} - \text{Actual Value}|$$

$$\text{Relative error} = \text{Absolute error} / \text{Actual Value}$$

Please see the summarized results below:

Stock/File	Predicted Value	Actual Value	Absolute Error	Relative Error (%)
Google	1105.98	1090.57	15.4	1.41
Xperi	21.13	20.25	0.88	4.37
Amazon	1400.1	1338.09	62.01	4.63
Apple	176.5	174.55	1.95	1.12
New York Times	24.89	23.95	0.94	3.91
Honeywell Int.	151.82	154.01	2.19	1.43
Facebook	187.55	186.5	1.50	0.81
Honda	35.98	35.58	0.40	1.11
Nike	67.03	67.67	1.64	2.43
IBM	153.18	152.48	0.70	0.46
Dataset1	28.38	28.11	0.26	0.95
Dataset2	28.68	28.11	0.56	2.01
Dataset3	130.85	137.45	6.60	4.80
Dataset4	332.15	334.45	2.30	0.70
Dataset5	1330.24	1334.45	4.21	0.32