# Performance

*This is the data of the time needed for training on face images with the Naïve Bayes Algorithm. I did 3 trials for each group of data points.*

|  |  |
| --- | --- |
| Data Points | Training Time (seconds) |
| 45 | 0.004 |
| 45 | 0.004 |
| 45 | 0.004 |
| 90 | 0.007 |
| 90 | 0.005 |
| 90 | 0.004 |
| 135 | 0.005 |
| 135 | 0.005 |
| 135 | 0.005 |
| 180 | 0.007 |
| 180 | 0.008 |
| 180 | 0.006 |
| 225 | 0.008 |
| 225 | 0.01 |
| 225 | 0.006 |
| 270 | 0.008 |
| 270 | 0.011 |
| 270 | 0.008 |
| 315 | 0.011 |
| 315 | 0.011 |
| 315 | 0.012 |
| 360 | 0.016 |
| 360 | 0.017 |
| 360 | 0.013 |
| 405 | 0.016 |
| 405 | 0.013 |
| 405 | 0.013 |
| 451 | 0.015 |
| 451 | 0.015 |
| 451 | 0.012 |

This is the data for the prediction error on faces in relation to the number of data points used.

|  |  |
| --- | --- |
| Data Points | error |
| 45 | 0.307 |
| 45 | 0.227 |
| 45 | 0.293 |
| 90 | 0.147 |
| 90 | 0.153 |
| 90 | 0.186 |
| 135 | 0.147 |
| 135 | 0.133 |
| 135 | 0.16 |
| 180 | 0.147 |
| 180 | 0.147 |
| 180 | 0.133 |
| 225 | 0.14 |
| 225 | 0.147 |
| 225 | 0.12 |
| 270 | 0.127 |
| 270 | 0.127 |
| 270 | 0.12 |
| 315 | 0.113 |
| 315 | 0.12 |
| 315 | 0.153 |
| 360 | 0.127 |
| 360 | 0.127 |
| 360 | 0.106 |
| 405 | 0.087 |
| 405 | 0.1 |
| 405 | 0.107 |
| 451 | 0.093 |
| 451 | 0.093 |
| 451 | 0.093 |

\*\*\*still gotta figure out standard deviation

*This is the data for the time needed to train on digit images with the Naïve Bayes Algorithm. I did 3 trials for each group of data points.*

|  |  |
| --- | --- |
| Data Points | Training Time (seconds) |
| 500 | 0.004 |
| 500 | 0.006 |
| 500 | 0.005 |
| 1000 | 0.009 |
| 1000 | 0.008 |
| 1000 | 0.007 |
| 1500 | 0.012 |
| 1500 | 0.013 |
| 1500 | 0.01 |
| 2000 | 0.017 |
| 2000 | 0.013 |
| 2000 | 0.015 |
| 2500 | 0.017 |
| 2500 | 0.016 |
| 2500 | 0.016 |
| 3000 | 0.019 |
| 3000 | 0.016 |
| 3000 | 0.014 |
| 3500 | 0.018 |
| 3500 | 0.025 |
| 3500 | 0.017 |
| 4000 | 0.027 |
| 4000 | 0.029 |
| 4000 | 0.022 |
| 4500 | 0.026 |
| 4500 | 0.021 |
| 4500 | 0.018 |
| 5000 | 0.028 |
| 5000 | 0.03 |
| 5000 | 0.021 |

This is the data for the prediction error on digits in relation to the number of data points used.

|  |  |
| --- | --- |
| Data Points | error |
| 500 | 0.25 |
| 500 | 0.245 |
| 500 | 0.26 |
| 1000 | 0.241 |
| 1000 | 0.232 |
| 1000 | 0.24 |
| 1500 | 0.246 |
| 1500 | 0.222 |
| 1500 | 0.245 |
| 2000 | 0.242 |
| 2000 | 0.232 |
| 2000 | 0.236 |
| 2500 | 0.243 |
| 2500 | 0.233 |
| 2500 | 0.243 |
| 3000 | 0.24 |
| 3000 | 0.23 |
| 3000 | 0.236 |
| 3500 | 0.237 |
| 3500 | 0.239 |
| 3500 | 0.238 |
| 4000 | 0.246 |
| 4000 | 0.239 |
| 4000 | 0.244 |
| 4500 | 0.239 |
| 4500 | 0.243 |
| 4500 | 0.237 |
| 5000 | 0.238 |
| 5000 | 0.238 |
| 5000 | 0.238 |