**COMPUTATIONAL TIMES:**

**SVM (SUPPORT VECTOR MACHINES)**

|  |  |  |
| --- | --- | --- |
| Classifier Name  Computational Times | Support Vector Machines  (LINEAR KERNEL) | |
| Non-Cross Validated | Cross Validated |
| Training | 0.03168511390686035 | 51.120441198349 |
| Testing | 0.0057718753814697266 | 0.004691362380981445 |

|  |  |  |
| --- | --- | --- |
| Classifier Name  Computational Times | Support Vector Machines  (RBF KERNEL) | |
| Non-Cross Validated | Cross Validated |
| Training | 0.04049992561340332 | 10.826507091522217 |
| Testing | 0.019567012786865234 | 0.01778388023376465 |

**NAÏVE BAYES**

|  |  |  |
| --- | --- | --- |
| Classifier Name  Computational Times | Naïve Bayes | |
| Non-Cross Validated | Cross Validated |
| Training | 0.0008139610290527344 | 0.01171112060546875 |
| Testing | 0.0001621246337890625 | 0.00013303756713867188 |

\*\*Mentioned time is in seconds

**KNN (K-Nearest Neighbours)**

**Before Optimizing Parameters:**

|  |  |
| --- | --- |
| Training Time | 0.0020s |
| Testing Time | 0.0291s |

**While optimizing Parameters**:

No. of Neighbours vs Training Time (Average of All Folds):

|  |  |  |  |
| --- | --- | --- | --- |
| **No. Of Neighbours Considered** | **Time(s)** | **No. Of Neighbours Considered** | **Time(s)** |
| 1 | 0.005373 | 51 | 0.003343 |
| 3 | 0.005125 | 53 | 0.005385 |
| 5 | 0.005806 | 55 | 0.004069 |
| 7 | 0.006021 | 57 | 0.004853 |
| 9 | 0.006297 | 59 | 0.004700 |
| 11 | 0.004610 | 61 | 0.003979 |
| 13 | 0.004587 | 63 | 0.004540 |
| 15 | 0.004787 | 65 | 0.004096 |
| 17 | 0.005039 | 67 | 0.005675 |
| 19 | 0.003922 | 69 | 0.004591 |
| 21 | 0.004948 | 71 | 0.005381 |
| 23 | 0.005001 | 73 | 0.004772 |
| 25 | 0.005823 | 75 | 0.004191 |
| 27 | 0.004258 | 77 | 0.004595 |
| 29 | 0.005841 | 79 | 0.006714 |
| 31 | 0.005264 | 81 | 0.004089 |
| 33 | 0.004996 | 83 | 0.006531 |
| 35 | 0.005001 | 85 | 0.004147 |
| 37 | 0.004317 | 87 | 0.006094 |
| 39 | 0.004324 | 89 | 0.004230 |
| 41 | 0.007048 | 91 | 0.004120 |
| 43 | 0.004486 | 93 | 0.004309 |
| 45 | 0.004063 | 95 | 0.004947 |
| 47 | 0.003662 | 97 | 0.004061 |
| 49 | 0.004601 | 99 | 0.004197 |

**After optimizing Parameters:**

|  |  |
| --- | --- |
| Total Training Time | 5.0498s |
| Testing Time | 0.0689s |

**Project Members**

|  |  |  |
| --- | --- | --- |
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