Project visualizations data

# Result table having folds and corresponding RMSE

|  |  |  |
| --- | --- | --- |
| Folds | RMSE (with votes) | RMSE |
| 0 | 1.169 | 1.193 |
| 1 | 1.168 | 1.195 |
| 2 | 1.168 | 1.209 |
| 3 | 1.168 | 1.163 |
| 4 | 1.194 | 1.161 |
| 5 | 1.181 | 1.153 |
| 6 | 1.171 | 1.173 |
| 7 | 1.185 | 1.165 |
| 8 | 1.171 | 1.168 |
| 9 | 1.175 | 1.200 |

Average RMSE over 10 folds: **1.178 (without votes)**

Average RMSE over 10 folds: 1.175 **(with votes)**

**#K neighbours vs accuracy plot for folds =5**

|  |  |  |
| --- | --- | --- |
| No of neighbours (k) | Accuracy | RMSE |
| 2 | 58.49 | 1.169 |
| 4 | 53.93 | 1.113 |
| 6 | 51.17 | 1.098 |
| 8 | 50.55 | 1.082 |
| 10 | 49.66 | 1.077 |

# time taken to run vs the number of rows

|  |  |
| --- | --- |
| No of rows | Time (seconds) |
| 500000 | 315.955 |
| 100000 | 53.899 |
| 50,000 | 24.057 |
| 10,000 | 2.296 |
| 1000 | 0.125 |
| 500 | 0.0625 |
|  |  |

# percentage of users vs rmse

|  |  |
| --- | --- |
| % of unique users | RMSE |
| 100% 188742 | 1.079 |
| 80% 150,993 | 1.074 |
| 60 % 113245 | 1.099 |
| 40% 75497 | 1.158 |
| 20% 37748 | 1.167 |