|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Models** | **Accuracy** | **Regularization** | **Overfitting Gap**  **(Train\_score – validation score)** | **Time** |
| Baseline NN **(Wania)** | 84.9% | Dropout(30%, 50%) | -2.0% | 33.1s |
| Baseline NN **(Wania)** | 87.6% | L2 Regularization (0.001) | 2.1% | 33.1s |
| Baseline NN + PCA **(Emaan)** |  |  |  |  |
| Logistic Regression **(Emaan)** |  |  |  |  |
| Logistic Regression + PCA **(Emaan)** |  |  |  |  |
| SVM (RBF) **(Wania)** |  |  |  |  |
| SVM (RBF) + PCA **(Wania)** |  |  |  |  |
| Random Forest **(Emaan)** |  |  |  |  |
| Random Forest + PCA **(Emaan)** |  |  |  |  |
| Gradient Boosting **(Wania)** |  |  |  |  |
| Gradient Boosting + PCA **(Wania)** |  |  |  |  |
| Linear Regression **(Emaan)** |  |  |  |  |
| Linear Regression + PCA **(Emaan)** |  |  |  |  |
| Polynomial Regression **(Wania)** |  |  |  |  |
| Polynomial Regression + PCA **(Wania)** |  |  |  |  |