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| --- | --- |
| **Model Accuracy, Precision, ROC\_AUC**  **Before Hyperparameter Tunning** | **Model Accuracy, Precision, ROC\_AUC**  **After Hyperparameter Tunning** |
|  |  |
| The following Model gives higher accuracy (desending order):   * XGB * KNN * RF * Adaboost * SVC * LR * LDA * NB * DT | For Voting Classifier used DT, XGB, RF, Adaboost, KNN and SVC as these are having higher accuracy and ROC\_AUC.  The output of Voting Classifier gives improved Accuracy, Precision and ROC-AUC value.  AUC of 0.90 falls into the "good discrimination" category. It indicates that the model has a high true positive rate and a relatively low false positive rate across different threshold settings, demonstrating its effectiveness in distinguishing between the positive and negative classes.  We are using Voting Classifier as it gives improved Accuracy, Precision and AUC value. |