



Smote On Random Forest Classifier

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Team ID	740021
Project Title	Sepsis Survival Minimal Clinical Records
Maximum Marks	5 Marks

```
[ ] from imblearn.over_sampling import SMOTE
    from imblearn.under_sampling import RandomUnderSampler
    from imblearn.pipeline import Pipeline
     from sklearn.ensemble import RandomForestClassifier
[ ] rus = RandomUnderSampler()
[ ] smote = SMOTE(sampling_strategy='auto')
[ ] rf_classifier = RandomForestClassifier()
[ ] pipeline = Pipeline([
         ('somte', smote),
         ('rus',rus),
         ('rf',rf_classifier)
     ])
[ ] pipeline.fit(x_train,y_train)
          a Veranda Enterprise
```



```
pipeline.fit(x_train,y_train)
\rightarrow
                Pipeline
         RandomUnderSampler
    y_pred1 = pipeline.predict(x_test)
    accuracy = accuracy_score(y_test,y_pred1)
    print("Accuracy:",accuracy)
    Accuracy: 0.5511383482043629
```

[] #evaluating model
 plt.figure(figsize=(5,5))
 sns.histplot(y_test_pred,bins=20,kde=True)
 plt.title("prediction error")



