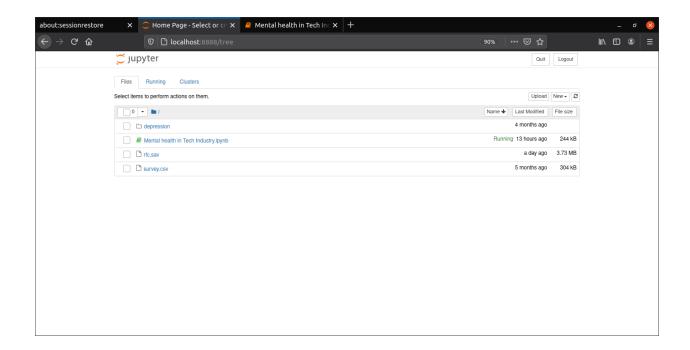
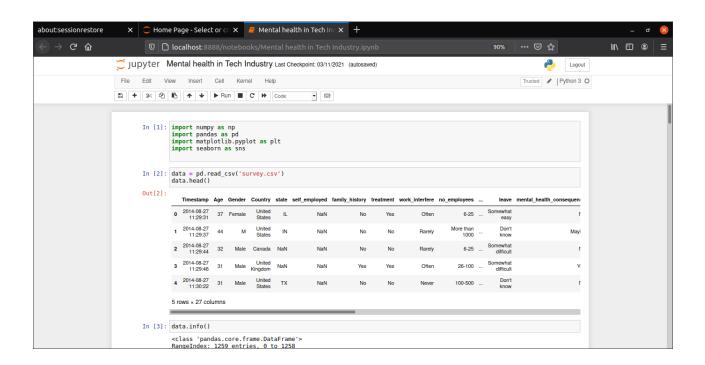
Name: Colin Mburugu

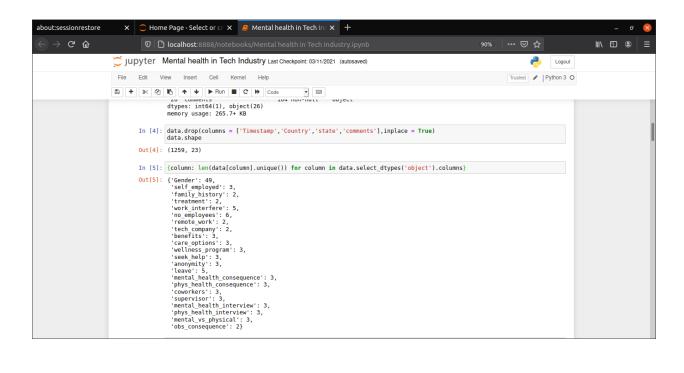
Batch: LISUMO1

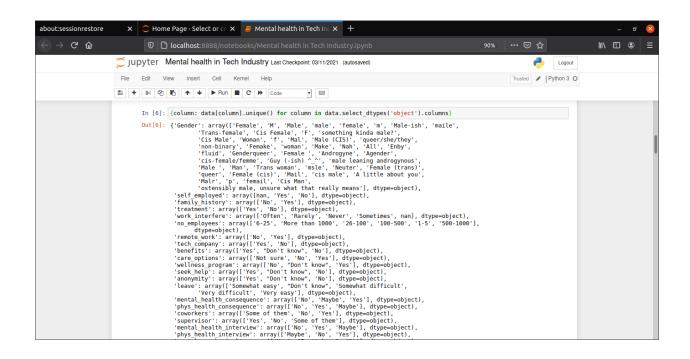
Submission_date: 4/07/2021

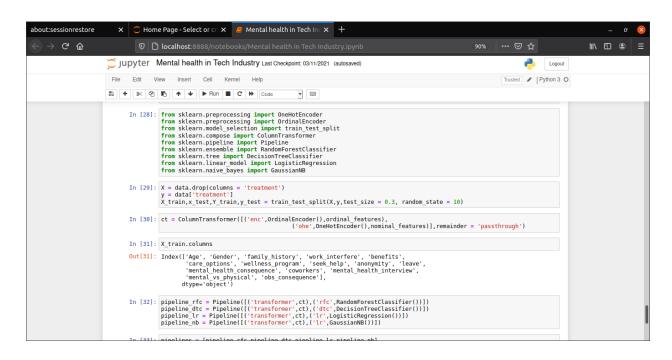
Submission_to : Data Glacier











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about:sessionrestore
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                                  •
                                           In [33]: pipelines = [pipeline_rfc,pipeline_dtc,pipeline_lr,pipeline_nb]
                                                          # Fit the pipelines
for pipe in pipelines:
    pipe.fit(X_train, Y_train)
                                           In [34]: # Dictionary of pipelines and classifier types for ease of reference
pipe_dict = {0: "RandomForest", 1: "Decision Tree", 2: "LogisticRegression", 3: "Naive_bayes"}
for i,model in enumerate(pipelines):
    print("{} Test Accuracy: {}".format(pipe_dict[i],model.score(x_test,y_test)))
                                                          RandomForest Test Accuracy: 0.726790450928382
Decision Tree Test Accuracy: 0.6392572944297082
LogisticRegression Test Accuracy: 0.7002652519893899
Naive_bayes Test Accuracy: 0.6843501326259946
                                           In [35]: pipe dict = {0: 'RandomForest', 1: 'Decision Tree', 2: 'LogisticRegression',3:'Naive_bayes'}
for I,model in enumerate(pipelines):
    print("{} Train Accuracy: {}".format(pipe_dict[i],model.score(X_train, Y_train)))
                                                          RandomForest Train Accuracy: 1.0
Decision Tree Train Accuracy: 1.0
LogisticRepression Train Accuracy: 0.7251995438996579
Naive_bayes Train Accuracy: 0.7080957810718358
                                           In [36]: import joblib
                                                          filename = 'rfc.sav'
joblib.dump(pipeline_rfc,filename)
                                           Out[36]: ['rfc.sav']
```

