df\_ex = df\_4.dropna()

df\_ex.columns

Y = df\_ex['Ox\_Chamber']

X = df\_ex[['spin1', 'spin2', 'spin3', 'photoresist\_bake']]

from sklearn.tree import DecisionTreeClassifier

model = DecisionTreeClassifier()

model.fit(X,Y)

df\_ex['예측값'] = model.predict(X)

df\_ex['1로예측확률'] = model.predict\_proba(X)[:,0]

df\_ex['2로예측확률'] = model.predict\_proba(X)[:,1]

df\_ex['3로예측확률'] = model.predict\_proba(X)[:,2]

df\_ex

