

evaluate(model, test data, class column, class column values): float

bootstrap(data): pd.Dataframe f1 measure(precision, recall): float

pd.Dataframe) stratified k cross fold(data, class column, k): (pd.Dataframe,

stratified k cross validation(model, data, class column, k)

calculate accuracy(confusion matrix. class column values): float

calculate precision(confusion matrix,

class column values): dict calculate recall(confusion matrix. class column values): dict