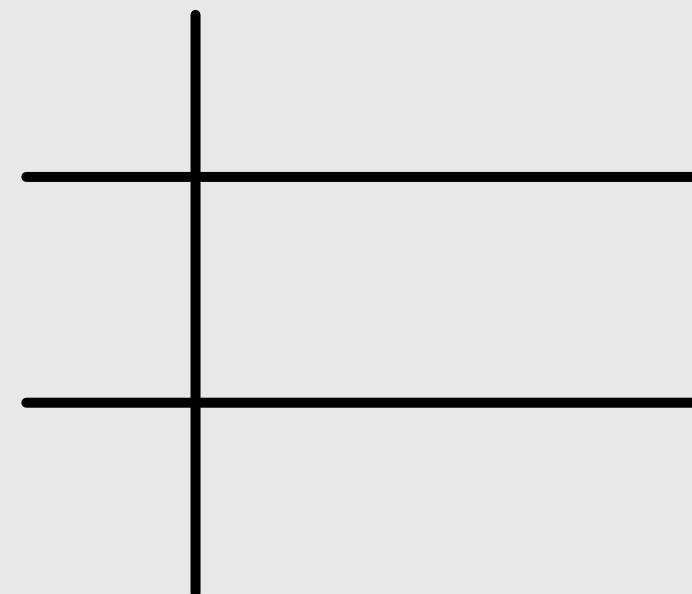


Network-Intrusion-Detection



prepared by

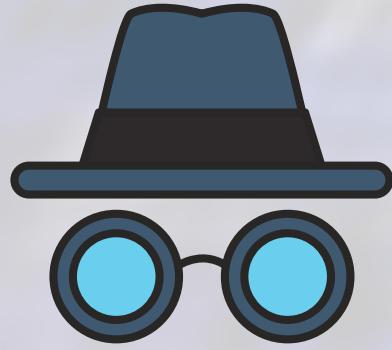


Ghaida Abdullah

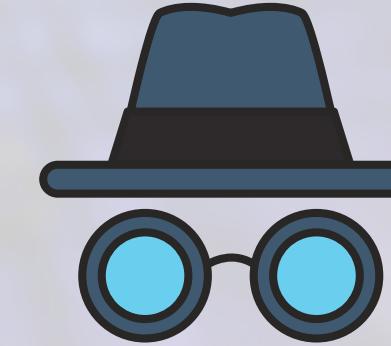
Amal alsafari



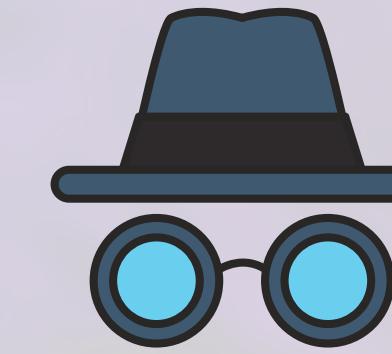
Overview



Introduction



Data Cleaning



EDA



Modeling

Introduction

in this show

We can analyze hacker attacks through our
use of data and use models to predict
penetration rates

rows 22544
columns 41

from

Kaggle

Data Cleaning

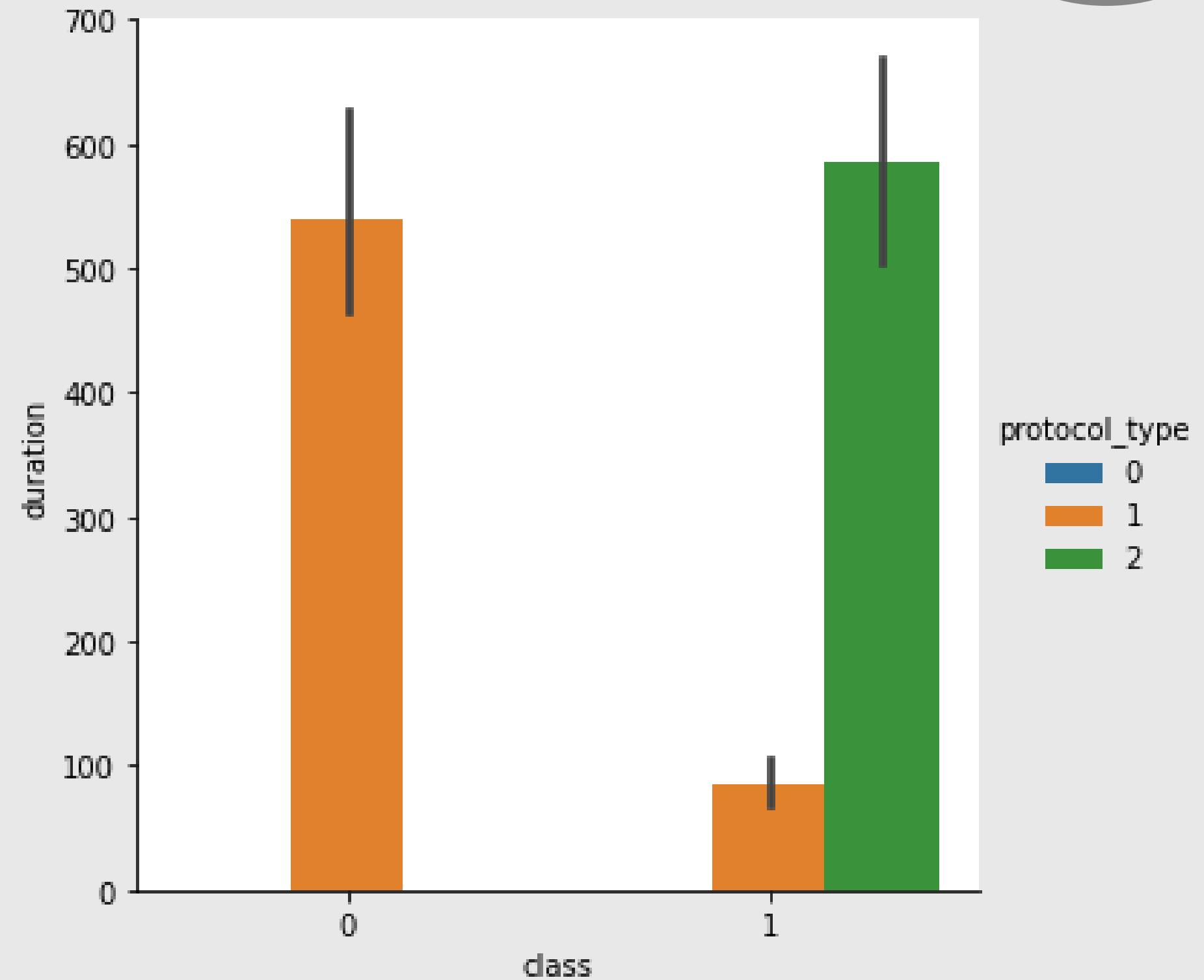
Drop all values
contain Nan values

Filter unwanted outliers

convert object data into
integer data

Exploratory Data Analysis

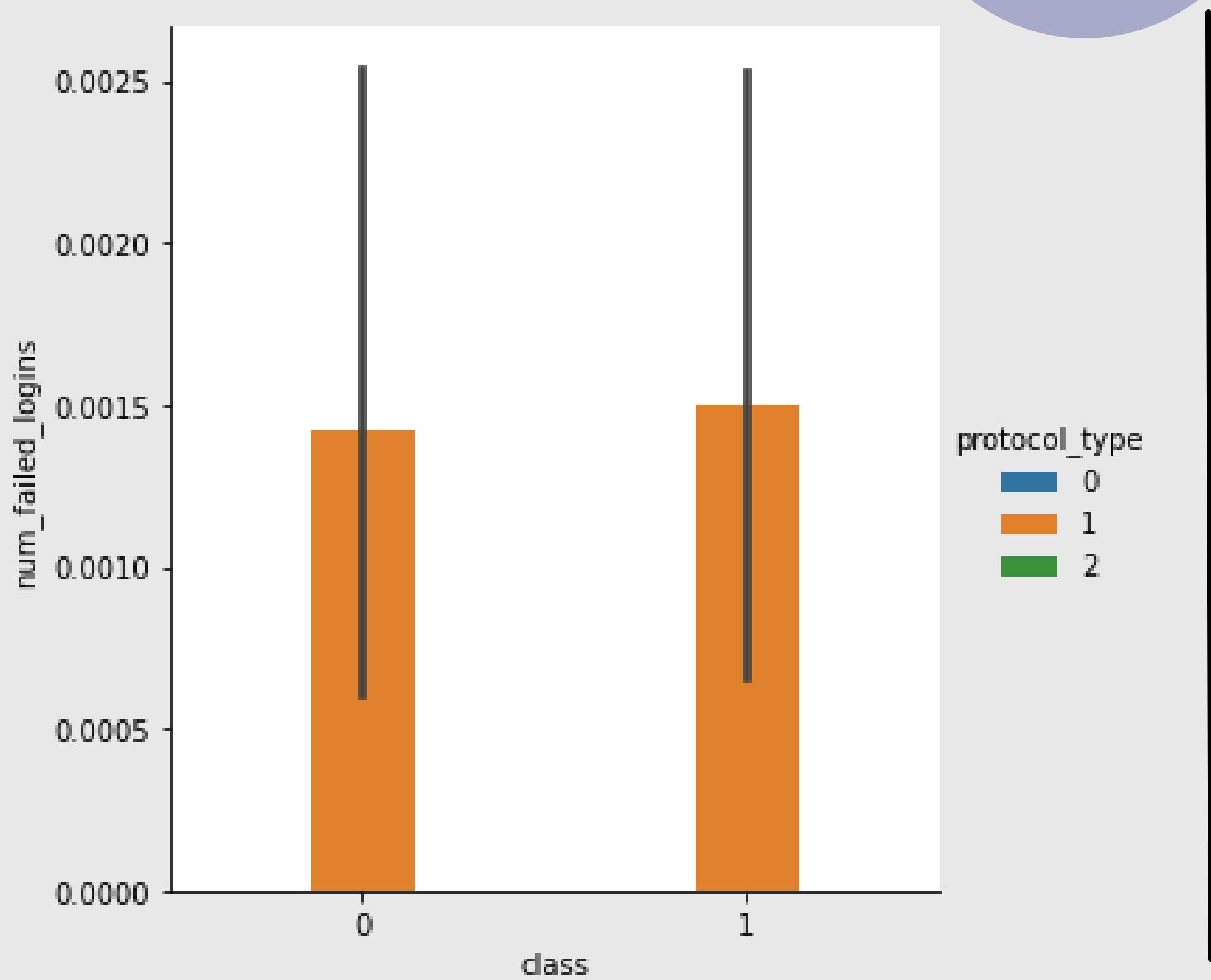
Types of protocol used by the class



Exploratory Data Analysis

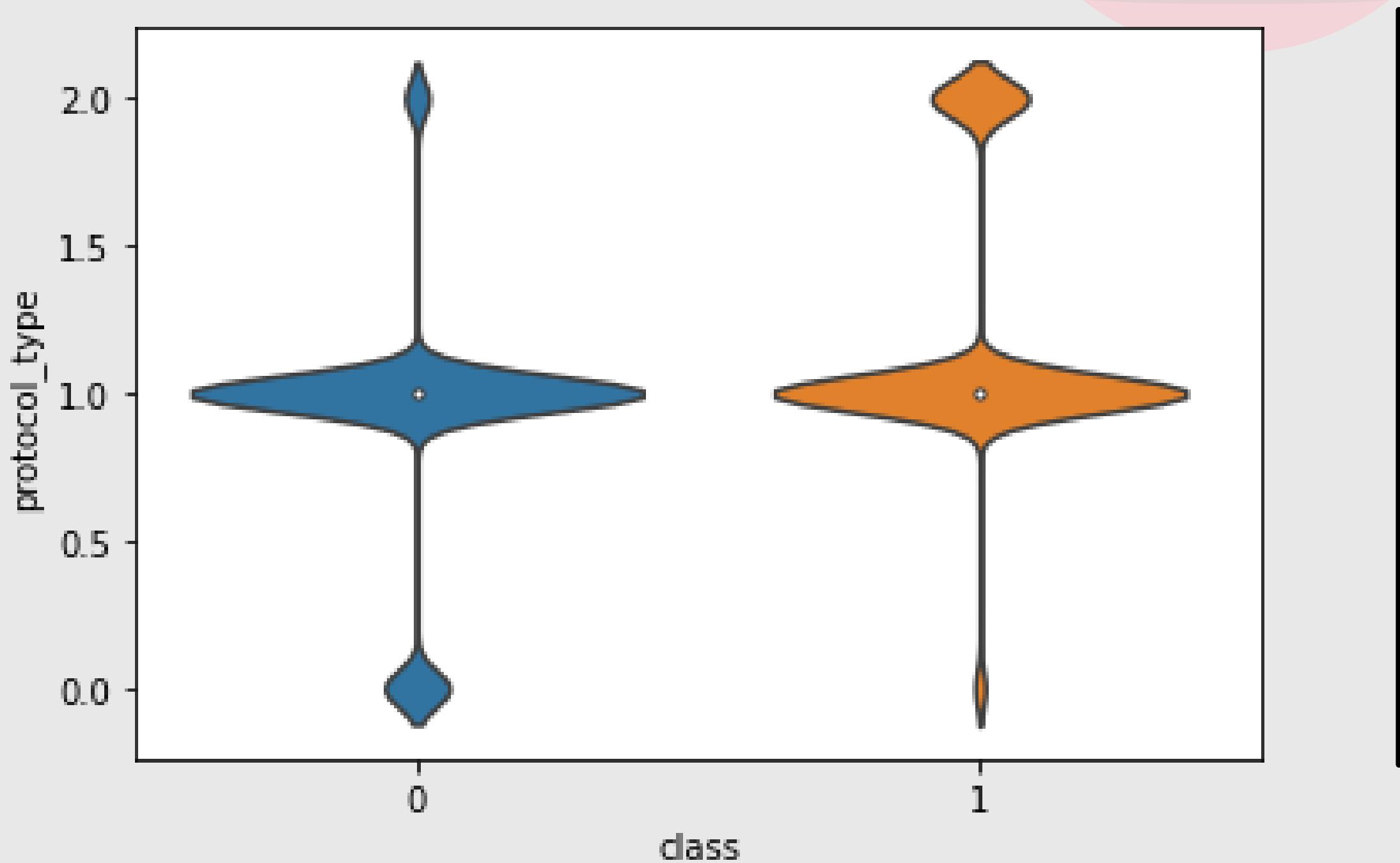


Types of protocol used by the class



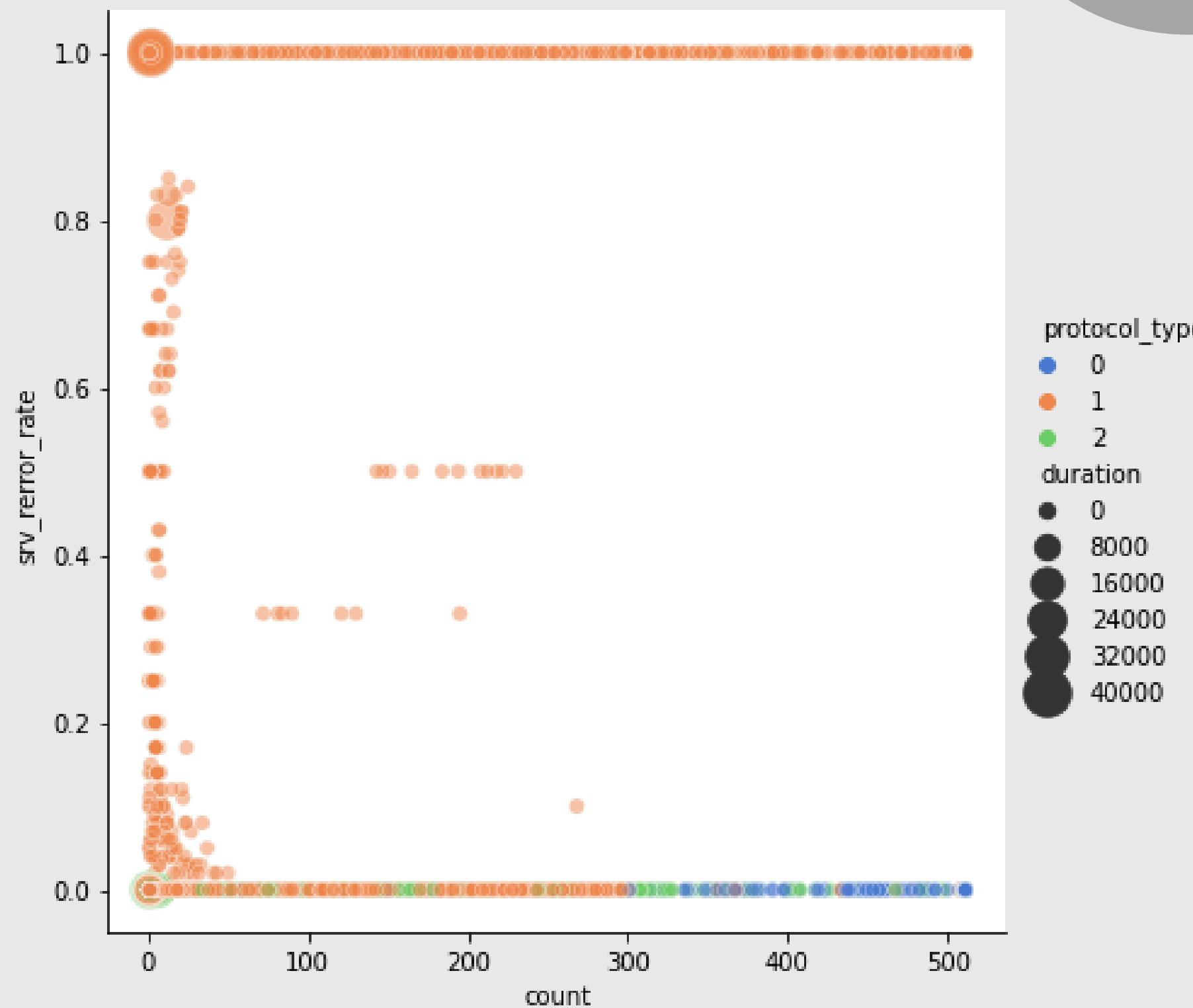
Exploratory Data Analysis

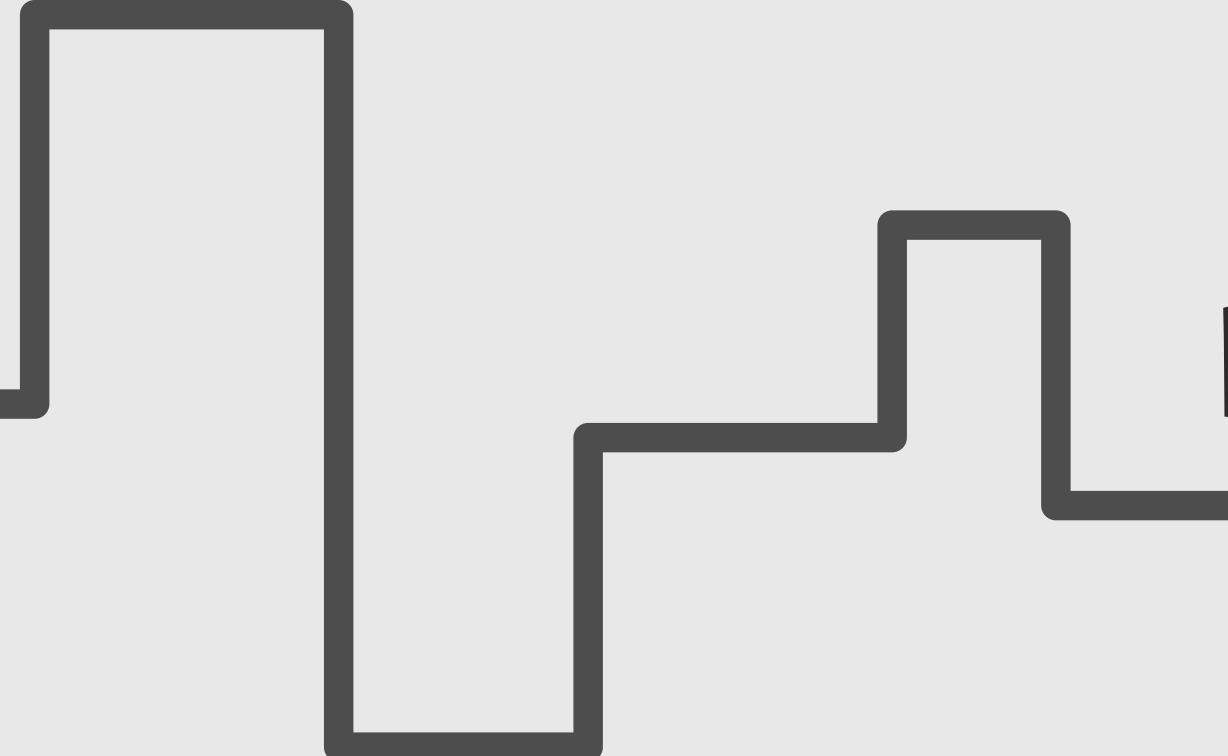
Use the protocol



Exploratory Data Analysis

The relationship between error rate, protocol types, and duration





Machine Learning Model

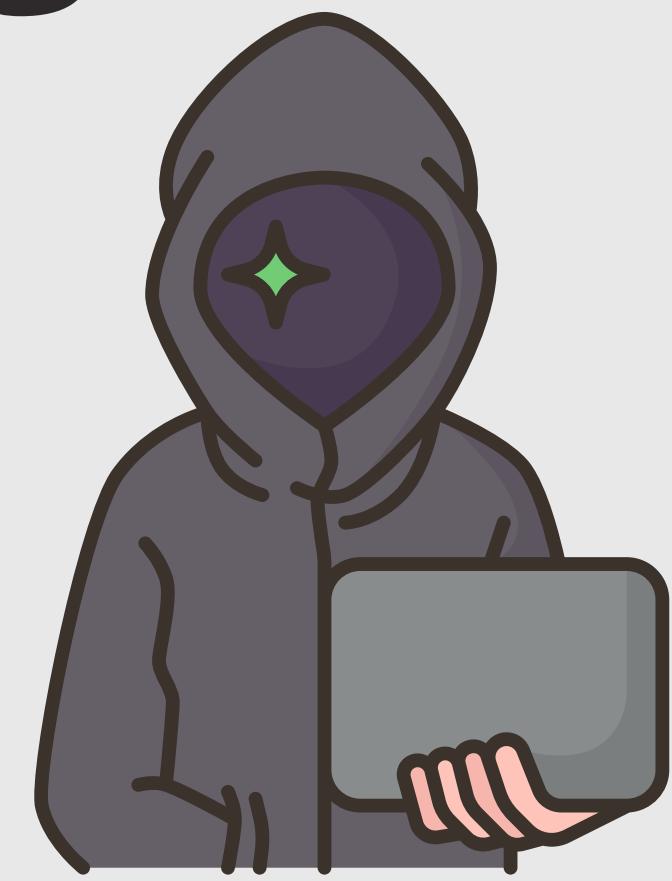
Regression



Algorithms



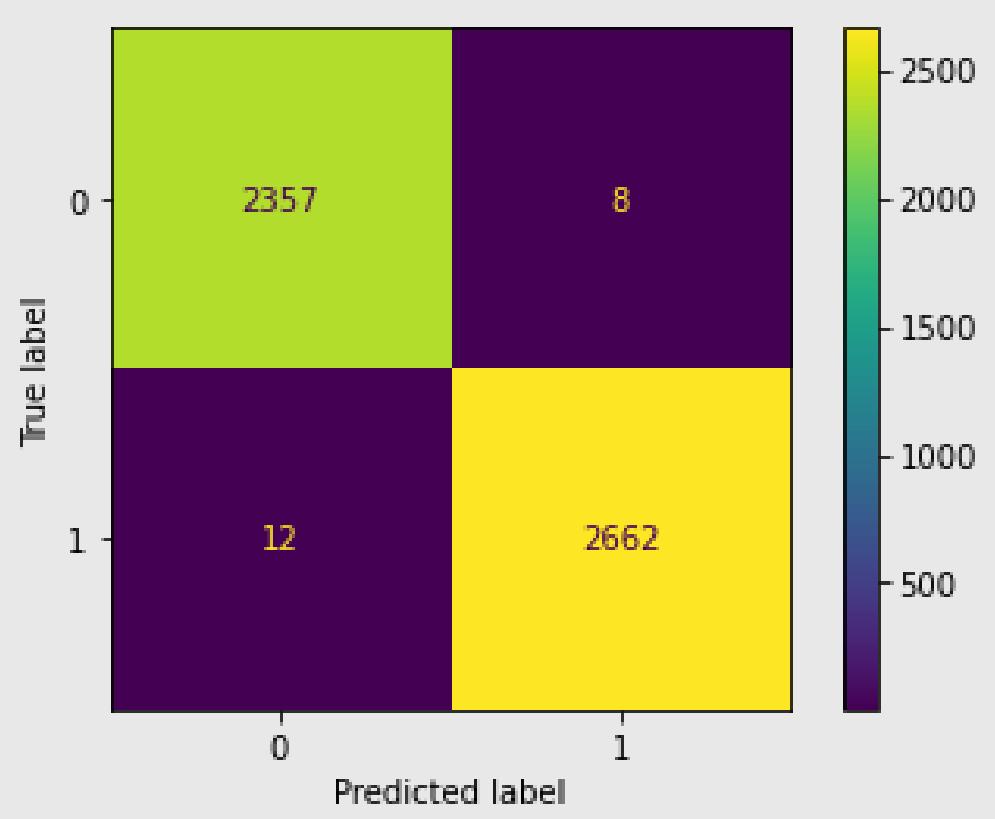
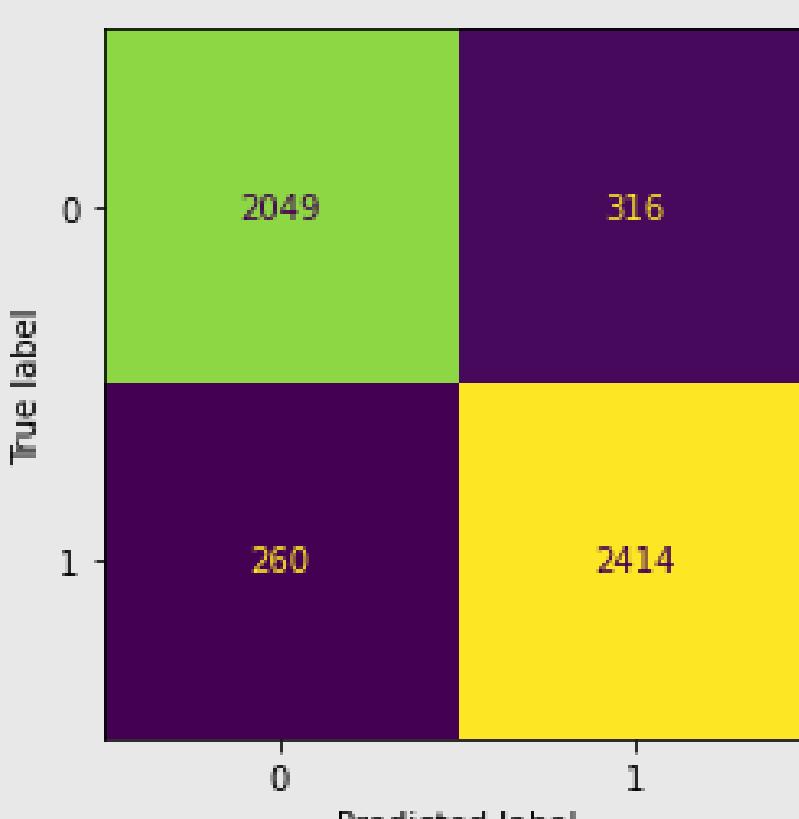
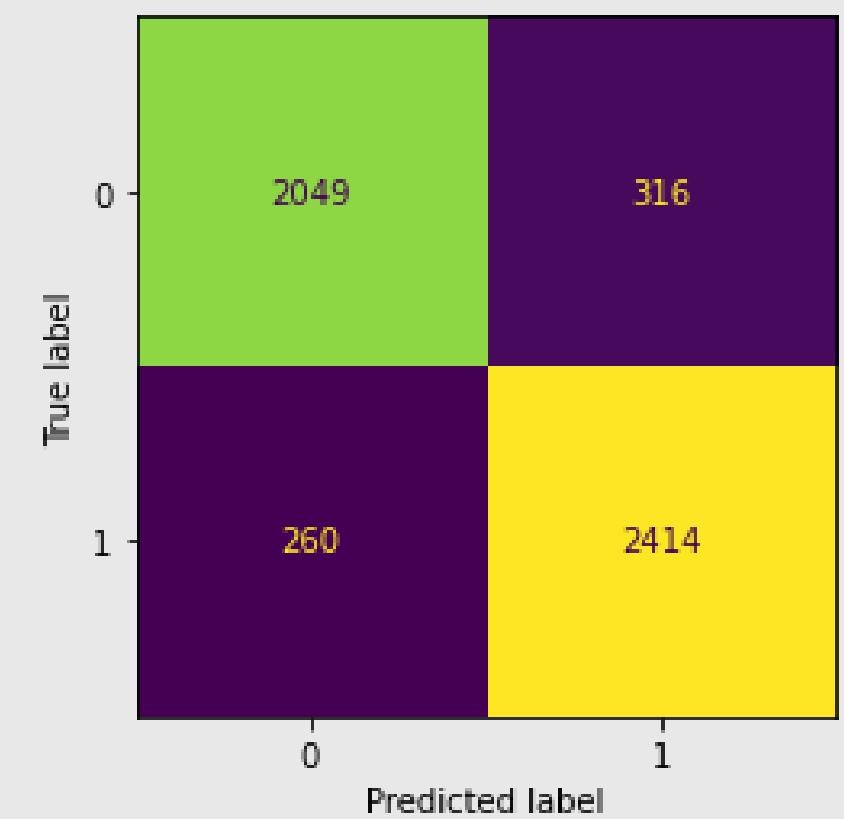
KNN



Logistic regression



Decision Tree



MODELS

score



KNN

0.9916650128993848



Logistic regression

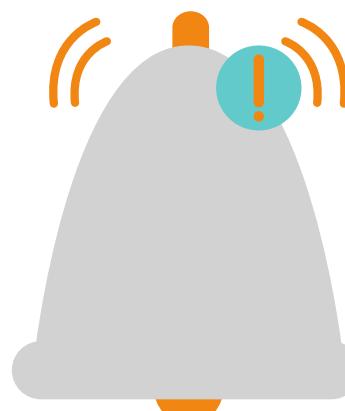
0.8856916054772772



Decision Tree

0.9960309585235165

Tools



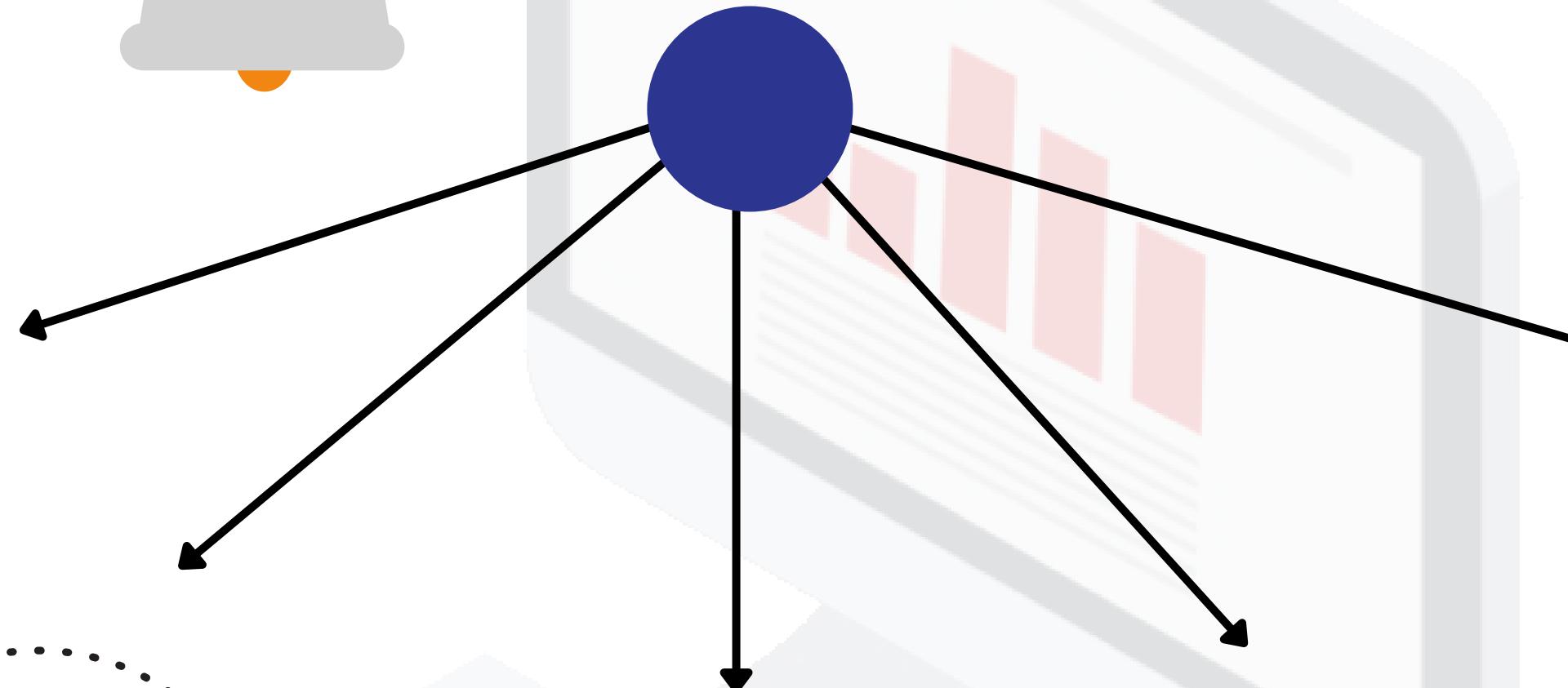
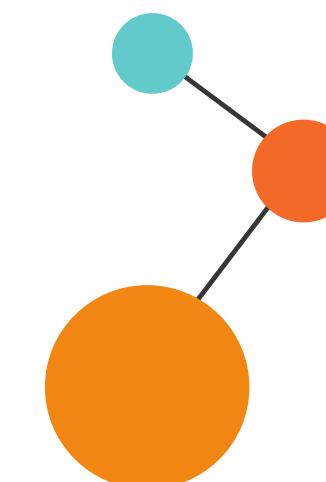
Pandas

NumPy

Matplotlib

seaborn

metrics



thank you all

