SafeTown

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SafeTown

CRIME PREDICTION BASED ON OFFICIAL CRIME RECORDS

WHAT FUNCTIONALITY DOES SAFETOWN HAVE?

The functionality of Safetown is an AI-powered app that allows predicting where a crime may occur on a given day

WHICH HAS BENEFITS?

Safetown is valuable for predicting and preventing crime with AI, providing advance information about high-risk areas to promote public safety and reduce crime

SAFETOWN

Objective

SAFETOWN'S OBJECTIVE IS TO ENHANCE PUBLIC SAFETY BY PREDICTING AND PREVENTING CRIMES AS ACCURATELY AS POSSIBLE.

The processes that Safetown performs to make its predictions

MODEL - IA

The AI model provides a prediction based on the data sent by the user through the front-end and backend, and returns a document and location indicating where a crime may possibly occur.
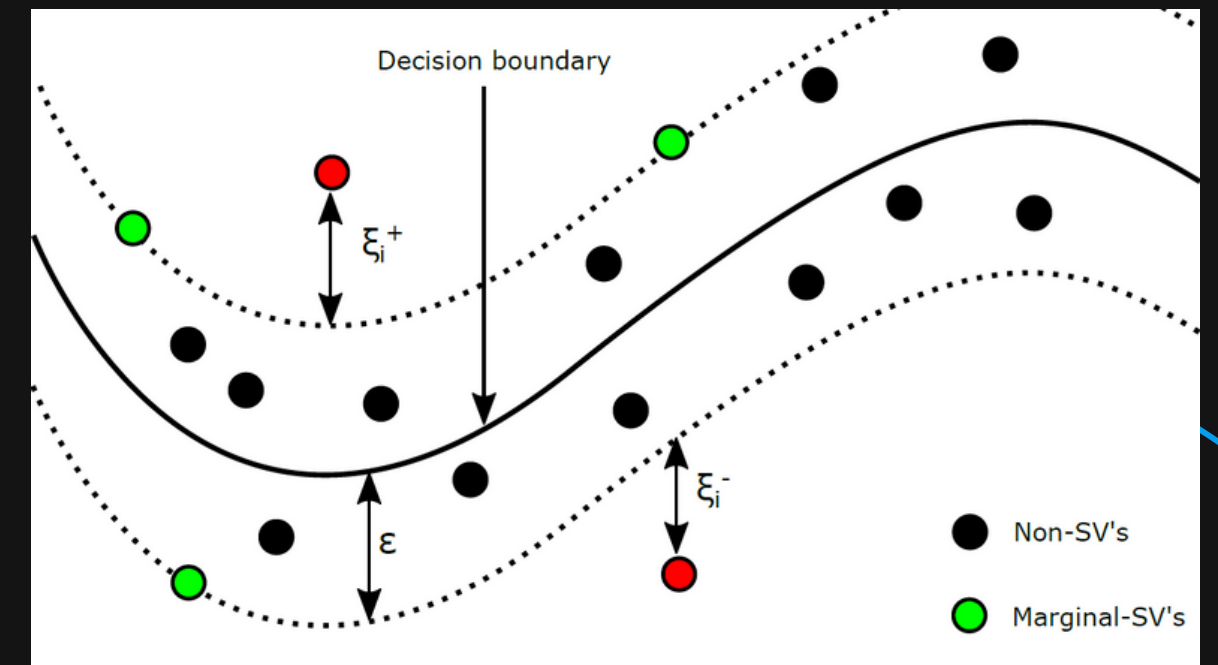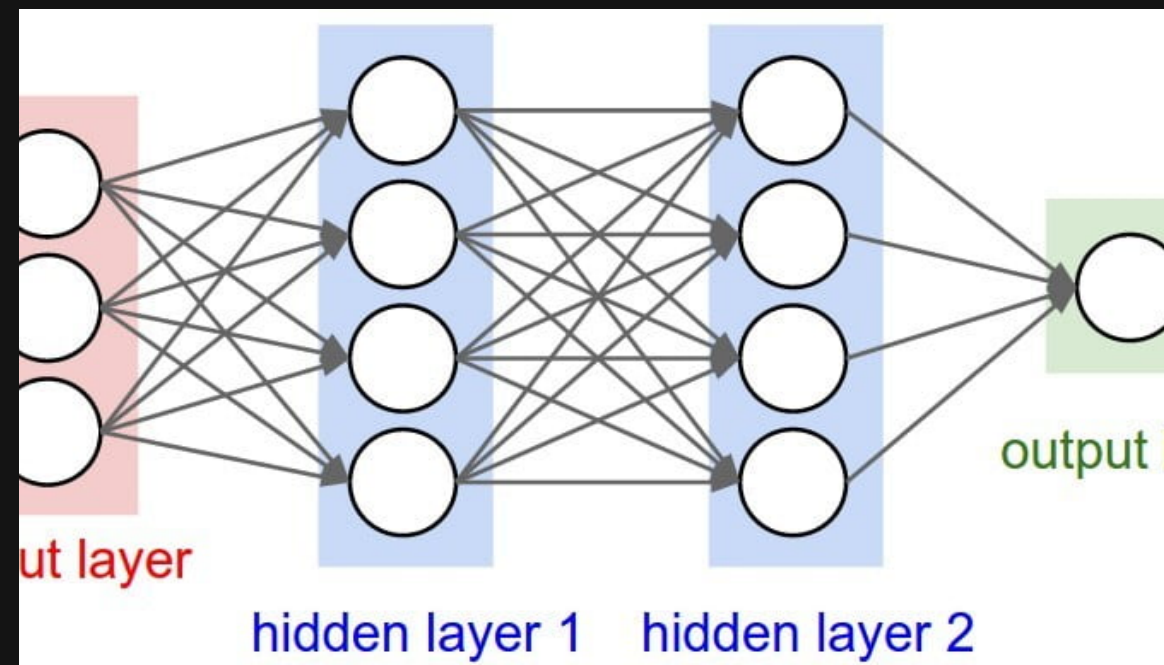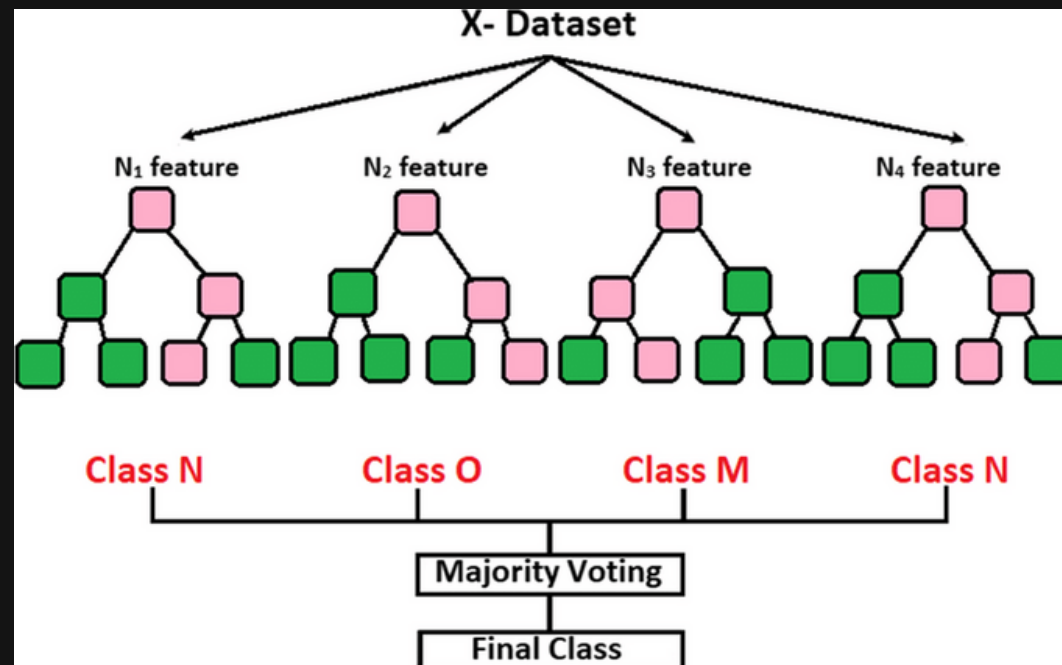
BACK-END

The backend provides sending the data entered in the front-end to the prediction model

FRONT-END

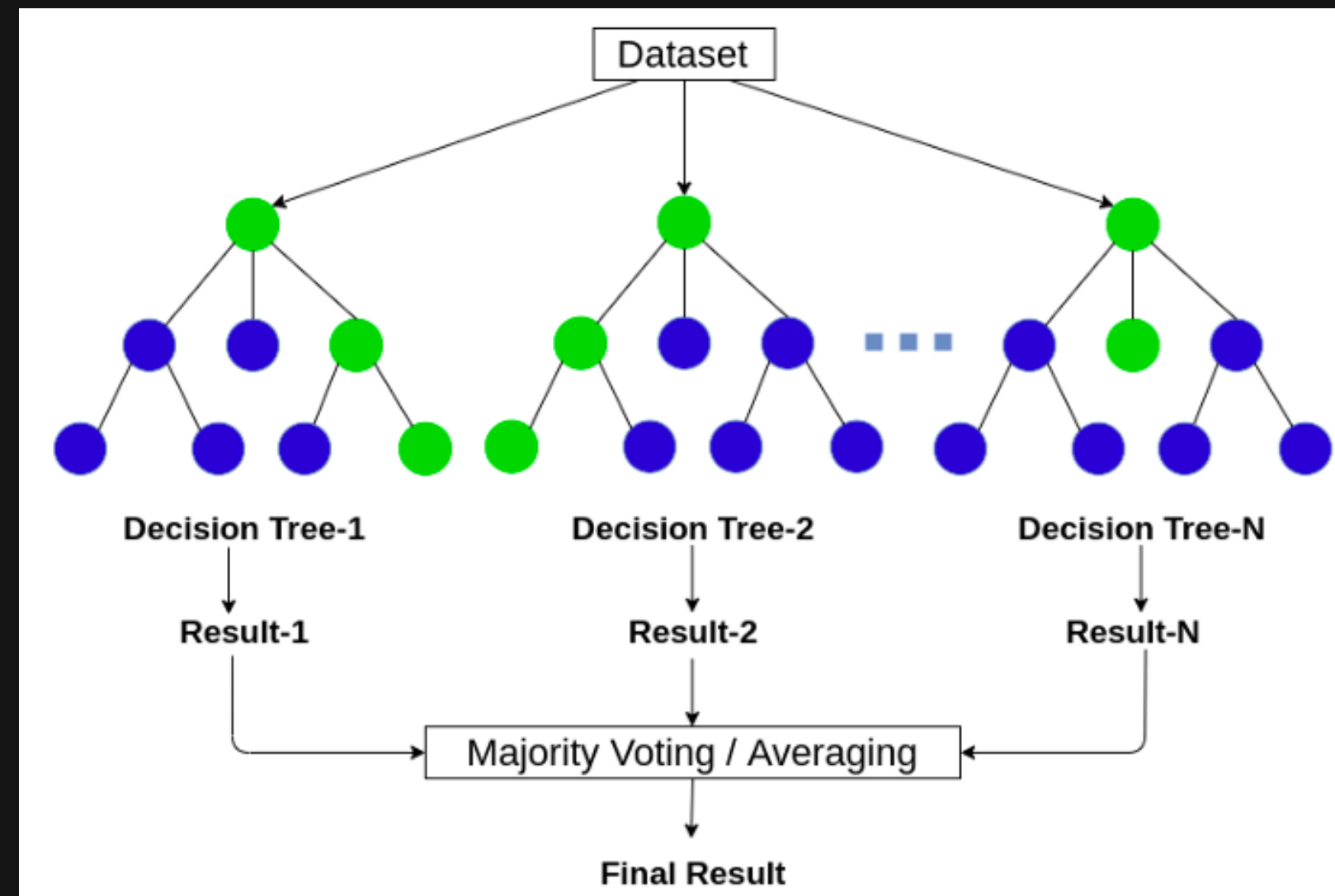SafeTown provides a front-end web application where data can be entered

Models

DECISION TREE REGRESSOR

DNN (DEEP NEURAL NETWORK)

SVR (SUPPORT VECTOR REGRESSION) WITH A LINEAR KERNEL

Models

RANDOM FOREST REGRESSOR

Models

MSE for values of max depth with 50 estimator

RANDOM FOREST REGRESSOR

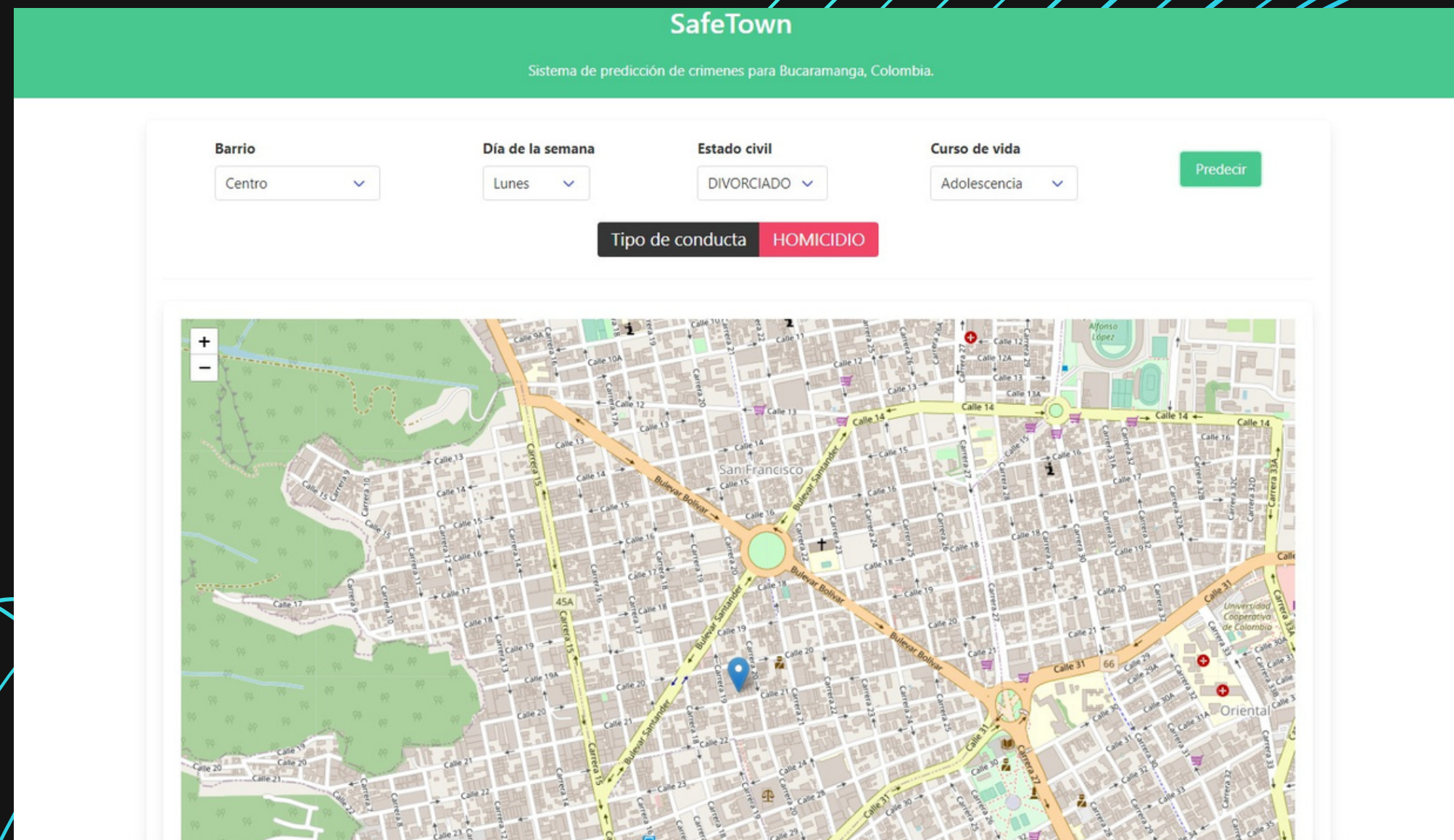# Models

MSE for values of max depth 5 with x estimator

RANDOM FOREST REGRESSOR

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The aim of the project is to predict the location and type of weapon used in a potential crime in the city of Bucaramanga (COL). To achieve this, a model based on Random Forest Regressor is used, which is fed with a dataset of all crimes recorded in the city over the last 6 years, obtained from datos abiertos.gov.

Thanks