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Run Models

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Dataset Selection

HAM10000

GTSRB

Model Selection

ResNet-101

YOLOv5

Attack Selection

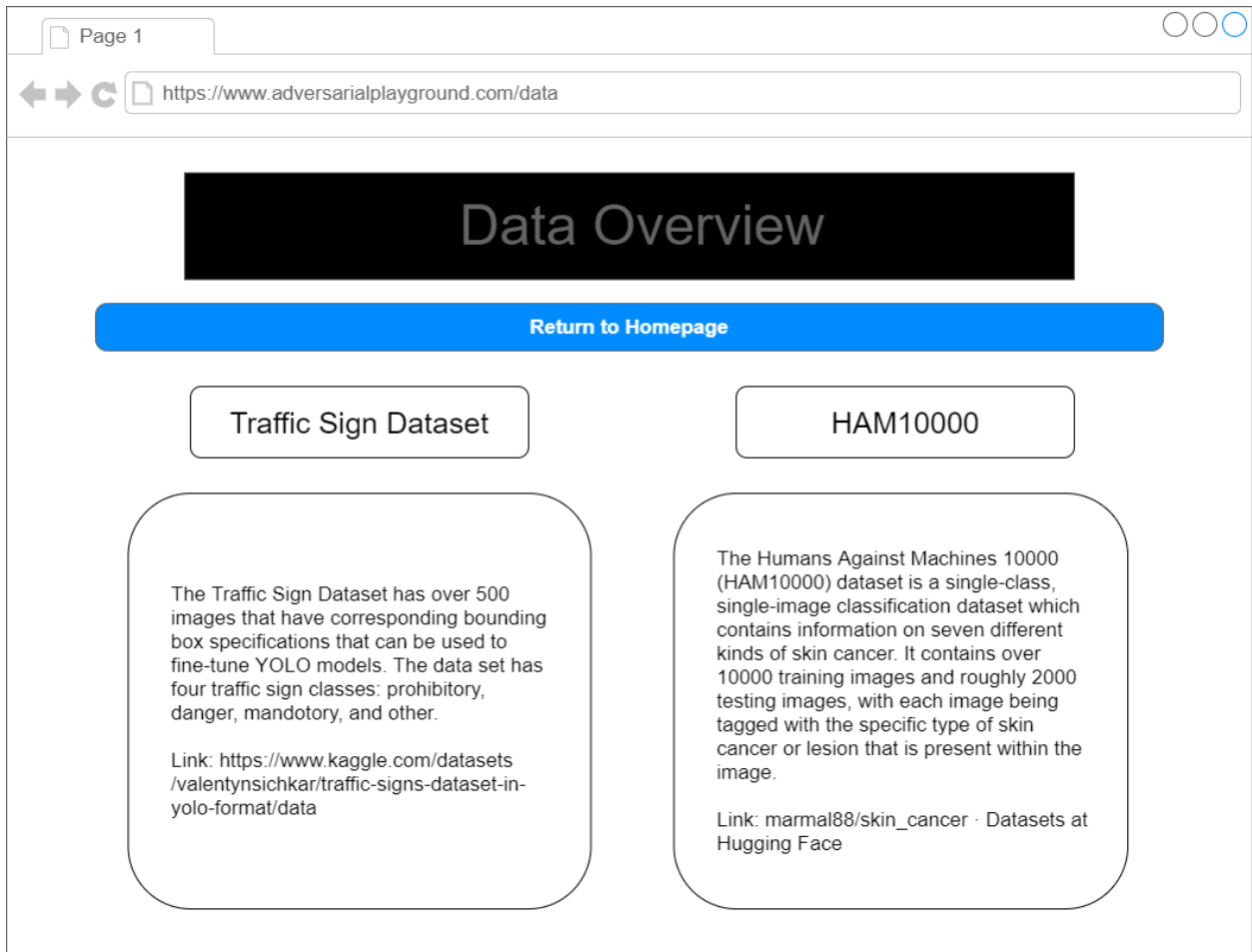
Attack 1

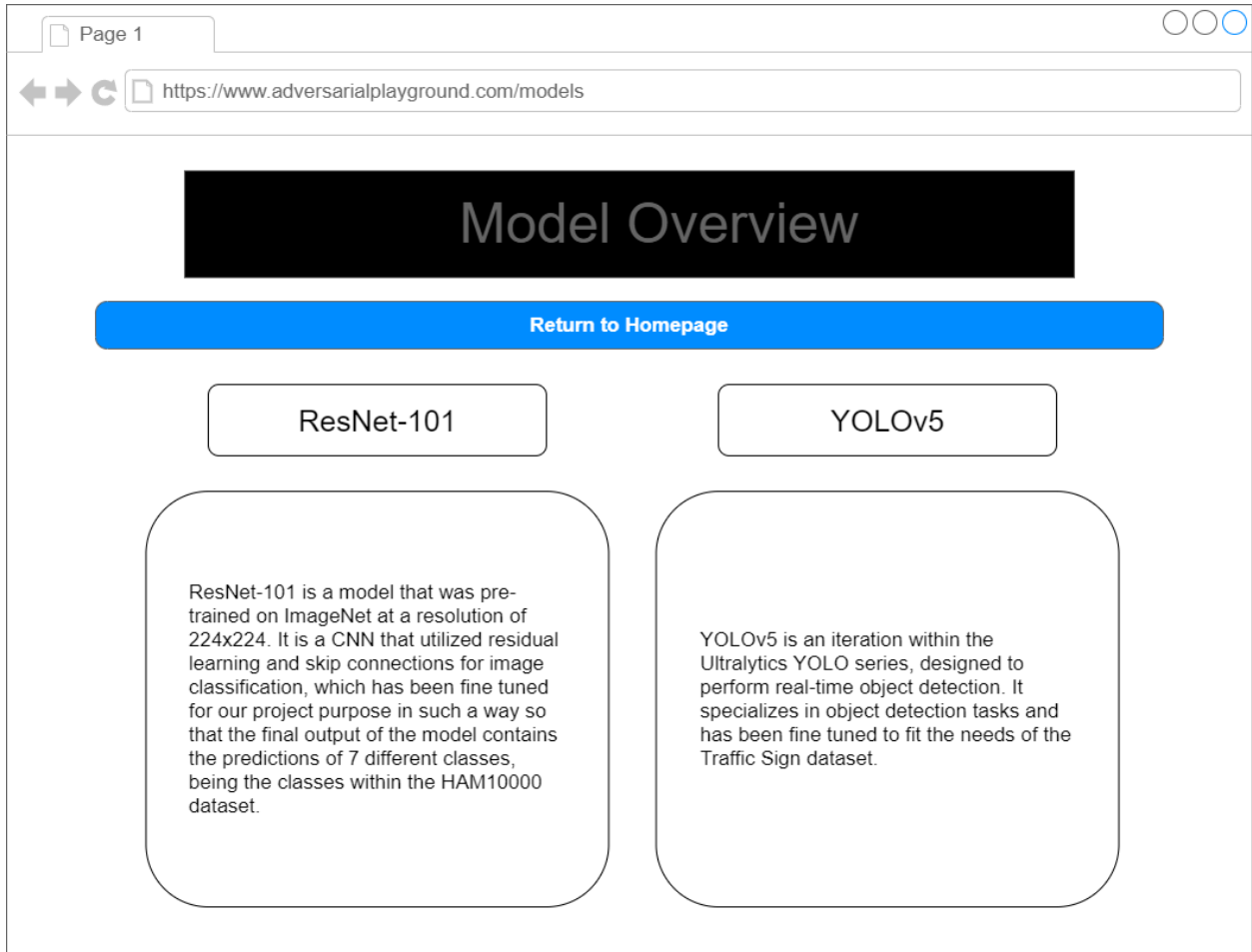
Attack 2

Run Test

Performance Results

This will be uploaded with some form of performance comparison and possibly an example image of what the difference between running the models on the test set without the attacks taking place and then with the attacks taking place looks like





Model Overview

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ResNet-101

ResNet-101 is a model that was pre-trained on ImageNet at a resolution of 224x224. It is a CNN that utilized residual learning and skip connections for image classification, which has been fine tuned for our project purpose in such a way so that the final output of the model contains the predictions of 7 different classes, being the classes within the HAM10000 dataset.

YOLOv5

YOLOv5 is an iteration within the Ultralytics YOLO series, designed to perform real-time object detection. It specializes in object detection tasks and has been fine tuned to fit the needs of the Traffic Sign dataset.

