**Self-Driving Car**

We will build a self-driving car simulation.

It uses:

**JavaScript, Neural Networks and Machine Learning.**

**No Libraries will use.**

**You will learn**

**Car Physics:** learn simple physics to move the car. In beginning we will control the car using our selves using the keyboard.

**Road Generation: Learn to create a road and how to follow the car road like Drone is filming it from above.**

**Sensors: we will simulate some sensors on the car. These sensors will work by Ray Casting and detect if the car is too close to side of road or to other cars in traffic. To implement these we will use a formula for Segment intersections.**

**Collision: Implement the collision detection using the same Segment intersection formula, it works with any orientation and supports other shapes as well**