

PROJECT PROPOSAL

PROJECT TOPIC	Distracted Driver Detection		
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I. INTRODUCTION

Driving a car is a complex task, and it requires complete attention. The National Highway Traffic Safety Administration [NHTSA](#) reported that 36,750 people died in motor vehicle crashes in 2018, and 12% of it was due to distracted driving. Fortunately, technology is adapting to help keep today's drivers safe, I believe that computer vision can augment the efforts of the governments to prevent accidents caused by distracted driving. An app that can capture real time images of the driver and alert them if they are distracted within seconds with the ease of a button click can prove to be beneficial by greatly bringing down mishaps.

II. URL to dataset

<https://www.kaggle.com/c/state-farm-distracted-driver-detection/data>

III. Data Link and similar applications

Similar application:

<https://tracknetonline.com/prevent-accidents-with-distracted-driving-cameras/>

<https://www.samsara.com/products/safety/dash-cam/>

<https://hdfleet.com/distracted-driving-cameras/>

<https://www.everquote.com/everdrive/>

IV. Features

The app will allow user to upload a photo or capture real time photos of the driver, classifying it as distracted or not distracted within seconds with the ease of a button click

The app will classify the picture into one of the following normal driving, texting, talking on the phone, operating the radio, drinking ,reaching behind, hair and makeup , talking to passenger.

After classifying the image, the app will alert the driver or the passenger if he is distracted and pay attention on the road.

