Driver Alerter

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Team

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Motivation

❖ Increased rate of car accidents in the recent years

❖ Mostly due to cell phone usage, eating etc.

- According to the NSC, the estimate for crashes caused by texting rose to at least 6% in 2013

- Additionally, 21% of crashes in 2013 were related to the use of handheld or hands-free phones

- The council estimates that talking on the phone led to 1.2 million wrecks in 2013 , while texting was involved in at least 341,000 more

Project

❖ Alert tool for driver assistance

- Camera system for collecting images

- Customizable cues (using cell phone, eating, smoking etc.)

- Warning using different stimuli (sound, vibrating seat)

Technology

- Microsoft Azure Computer Vision API

    Object Classification

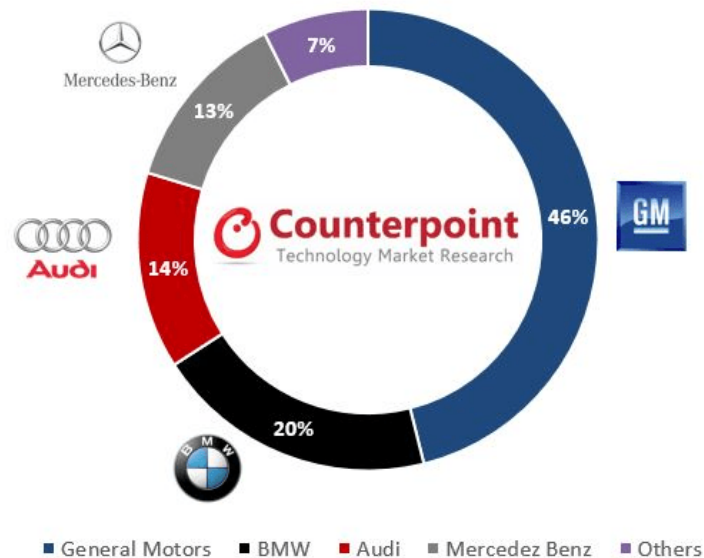

Requirements

- Web Connection

    Connection to server might be occluded

    side solution: NN to be implemented to work offline

Market

All BMW cars to join Internet of Things with Connected Drive SIM card technology to feature in every BMW road car; enables remote updates to software(2016, Autocar)

Connected Car Market to Grow 270% by 2022 GM Bests BMW, Audi & Mercedes-Benz(2018, Counterpoint)

DEMO