Visvesvaraya Technological University, Belgaum.

A PROJECT REPORT ON :

SAFE DRIVING USING MOBILE PHONES

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ABSTRACT

As vehicle manufacturers continue to increase their emphasis on safety with advanced driver-as assistance systems (ADASs), The proposed device that is not only already in abundance but portable enough as well to be one of the most effective multipurpose devices that are able to analyze and advise on safety conditions. Mobile smart phones today are equipped with numerous sensors that can help to aid in safety enhancements for drivers on the road. Here the three-axis accelerometer of an Android-based smart phone to record and analyze various driver behaviors and external road conditions that could potentially be hazardous to the health of the driver, the neighboring public, and the automobile. Effective use of these data can educate a potentially dangerous driver on how to safely and efficiently operate a vehicle. With real-time analysis and auditory alerts of these factors, it can increase a driver's overall awareness to maximize safety.