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(57) Abstract :

This poses a big challenge for the regulators to be put in place for an effective system to enforce motorist to wear helmet. It is very difficult to increase the traffic personals as it will increase the cost to the government. Also the problem is with general public mindset, who is watching us. Most of the Accidents are happening at early & late hours of the day, so most of the traffic personals & signal systems are shut down by that time. We need the help of AI to resolve the challenge in all the Dimensions (human interference, cost, accuracy, data retrieval & punish the violators). To address this challenge we have taken the help of AI deep learning based Convolution Neural Networks (CNN) to enforce the road safety to save innocent human lives from offensive drivers, where by implementing an automated enforcement system to identify and capture images of motorcyclists without wearing a helmet at signals and send it to a Traffic Control Center back-office to generate violation events and challans. The proposed approach has 98% accuracy compared to the existing AI techniques.

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