

AI-POWERED NON-HELMET RIDERS AND TRIPLE RIDE DETECTION IN TRAFFIC MONITORING

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It is difficult to enforce traffic laws in a country as densely populated as India. Nonetheless, a lot of motorcycle riders continue to endanger their lives by not donning protective equipment. The task of monitoring every car on the road takes a great deal of time for the traffic cops. Some of the more populated areas have CCTVs installed on a regular basis. The necessary technology is currently in place to expedite the tracking and monitoring of motorbike riders. This paper suggests a method for locating motorcycle riders who ride in triples without wearing a helmet and for obtaining the vehicle identification number (VIN) of any motorcycle being driven by an unprotected rider. The biker's helmet, the bike's license plate, and the triple riding are all recognized using the YOLO (You Look Only Once) method. YOLO, which is based on the COCO dataset, can distinguish between 80 distinct classes. YOLO acquired its knowledge by utilizing inputs such as license plate data and photos of helmets. This method produces very good results. With extreme accuracy, license plates, helmets, and triple riding are identified.