

Complete Specification

Description:FIELD OF THE INVENTION

[001] The present invention relates to the field of automated accident detection, vehicle diagnostics, computer vision-based damage assessment, and autonomous insurance claim processing. More particularly, the invention pertains to a multi-sensor, AI-driven system that integrates camera-based object detection, ultrasonic depth sensing, on-board diagnostics (OBD2), accelerometer- and gyroscope-based impact analysis, GPS telemetry, and artificial intelligence agents to enable real-time classification of vehicular accidents, automated verification of accident authenticity, intelligent repair-cost estimation, and end-to-end automated filing of insurance claim without human intervention. The invention further relates to the use of AI-based fraud prevention mechanisms and automated documentation systems for enhancing accuracy, reliability, and efficiency in motor-insurance claim workflows.

BACKGROUND OF THE INVENTION

[002] Vehicle accident reporting and insurance claim processing have traditionally relied on manual, time-consuming, and error-prone procedures. In conventional system accident assessment requires a physical inspection by surveyors, manual submission of photographic evidence, verification of policy details, and subsequent communication between the insured party, service centres, and insurance companies. Such processes introduce significant delays in claim settlement, create opportunity for human error, and increase the likelihood of fraudulent claims being submitted. Existing systems depend primarily on user-uploaded images or self-reported

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