

ABSTRACT

THE IMPLEMENTATION OF THE CERTAINTY FACTOR METHOD FOR DETECTING DAMAGE TO MOTORCYCLES AT SENTRAL YAMAHA BENGKULU

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Motorcycles are a means of transportation that is widely used by society in general, however, most people can only use them without knowing the symptoms and damage that occurs to their motorcycles. Due to the lack of knowledge and ignorance of motorcycle users about the damage that occurs, motorcycle users usually assume it is normal without knowing the actual damage and usually the user just takes it to a repair shop. Therefore, to help the public, especially automatic motorcycle users, in providing knowledge and consultation on the diagnosis of damage that is often experienced, this is by designing and building an expert system application by applying the Certainty Factor method. The method has the advantage that it can measure whether something is certain or not certain, for example in diagnosing damage to an automatic motorcycle. The final result of this research is an expert system that can diagnose automatic motorcycle damage along with the confidence value of the damage selected or experienced by automatic motorcycle users, which shows the system's level of confidence in the damage.

Keywords: *Expert System, Automatic Motorcycle, Certainty Factor*

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