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| **Article Info** |  | **ABSTRACT** |
| ***Article history:*** |  | Electric vehicle performance is greatly influenced by the Motor Drive System's stability, efficiency, and safety. Fault Detection and Diagnostics (FDD) of the Motor Drive System has grown to be a crucial area of research with the rise in the use of electric cars. Artificial intelligence (AI) techniques used in FDD has generated a lot of interest in recent years. An overview of the use of AI in fault detection for electric vehicles is given in this study. The two key steps of the FDD process are feature extraction and fault classification. Future research in the area of AI fault detection has great promise for improving the performance and safety of electric vehicles. Using Machine Learning and deep learning we can detect the fault in the System before it starts damaging our Electric Vehicle. |
| ***Keywords:***  Artificial intelligence(AI)  Fault detection and diagnostics Electric vehicles  Machine learning  Deep learning  ArtificialNeuralNetwork(ANN)  RandomForest(RF)  SVM  KNN |
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**Fault Detection and Diagnosis of Electric Vehicle using AI**