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We have demonstrated, assessed ,
and explained how effectively a machine learning algorithm
guided by physics may identify a cyberattack on electric vehicles.
Advanced physic to reflect the fleeting physical qualities of the vehicle,
guided features are also employed.

In actual implementations, the system is

trained offline before being used to
detect cyberattacks in real time.

Despite the training process's satisfactory detection accuracy,
there are still a number of problems that need to be resolved before
practical applications can be made. The detection of
performance during no network connectivity is one of the issues,
particularly
during taking into account the changing external driving environment,

1 Data-driven techniques can be conceptualised generally as using trained
models to identify unusual system
behaviour based on observational data gathered from the system. This strategy is
frequently based on the idea that, in ideal conditions, the observation
data would be constant with few variations caused by measurement flaws and system
noise.

Our main motive will be cyber attack detection that can be modified
using system and more on detailed physical engine properties of electric vehicles.

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