(Solana to Vehicle)

S2V

Building trust between vehicles

Our V2V solution enhances vehicle safety by enabling real-time trust management using Solana Blockchain & AI Federated Learning.

PROJECT OVERVIEW:

The idea is to use Federated Learning combined with Solana blockchain to manage the trustworthiness of vehicles in a 5G-enabled vehicular network. The trust level of each vehicle dynamically adjusts based on its behavior and contributions to the network. This trust management system ensures that data shared between vehicles is reliable and that malicious or faulty vehicles are identified and excluded. With 5G, the system leverage high-speed, low-latency data transmission to ensure real-time communication between vehicle and the network.

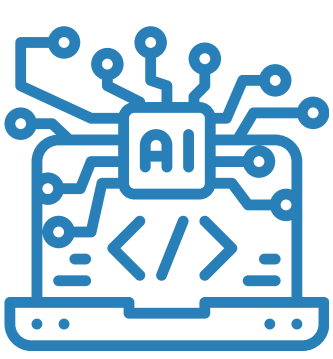
KEY FEATURE:

1

5G-ENABLED COMMUNICATION

- Fast, low-latency data exchange for instant trust score updates and collision alerts.
- Scalable to millions of vehicles in smart city ecosystems.

2



FEDERATED LEARNING

- Local AI models trained in vehicles to assess driving behavior and trustworthiness.
- Ensures privacy by sharing only model updates, not raw data.

3

REAL-TIME TRUST UPDATES

- Trust scores dynamically adjust based on vehicle behavior and interactions.
- Higher trust scores offer more reliable V2V data, improving road safety.

4

SOLANA BLOCKCHAIN

- Validates model updates with smart contracts to create a secure, decentralized trust score system.
- Records trust scores in a tamper-proof ledger for real-time decision making.

HOW S2V WORK: