

SWARM LEARNING TECHNOLOGY






ADDED VALUE: Enables training artificial intelligence models in a federated manner, while incorporating additional security and privacy-preserving measures. This includes features like rotating the node where model aggregation occurs.

DATA & INFORMATION


- 1** The model is trained on crime data sourced from select LEAs participating in the project, offering insights into type, crime, location and the date of occurrence.
- 2** This data will be complemented with statistical information encompassing social, economic, and demographic factors specific to an area.
- 3** This approach enables the crime algorithm to discern patterns and relationships between various parameters.

USE

-  Offers Law Enforcement Agencies (LEAs) around Europe the opportunity to train machine learning algorithms for predicting the incidence of crimes in designated areas and timeframes.
-  The strength of the tool lies in its ability to guarantee the confidentiality and privacy of sensitive data used to train the algorithm, which remains within the facilities where it is generated by various LEAs.
-  This facilitates collaboration in future investigations where data is required for training artificial intelligence models.

PRIVACY & ETHICS

The system relies on datasets generated by LEAs. Due to the sensitive nature of this data, it necessitates stringent protection against potential attacks, and sharing is subject to careful control and limitations.

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