## **Privacy Preserving AI & Federated Learning**

Wikipedia: Federated learning is a machine learning technique that trains an algorithm across multiple decentralized servers holding local data samples, without exchanging the data.

Federated learning enables multiple actors to build a common, robust machine learning model without sharing data, thus allowing to address critical issues such as data privacy, data security, data access rights and access to heterogeneous data.

Step 1	Step 2	Step 3	Step 4
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Central server chooses a statistical model to be trained	Central server transmits the initial model to several nodes	Nodes train the model locally with their own data	Central server pools model results and generate one global mode without accessing any data

## Federated Learning Architecture

Federated learning is a distributed machine learning approach that enables organizations to collaborate on machine learning projects without sharing sensitive data such as patient records.

