

# Resource Summary Report

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## PySyft

RRID:SCR\_021012

Type: Tool

### Proper Citation

PySyft (RRID:SCR\_021012)

### Resource Information

**URL:** <https://github.com/OpenMined/PySyft>

**Proper Citation:** PySyft (RRID:SCR\_021012)

**Description:** Software Python library for secure and private Deep Learning. Decouples private data from model training, using Federated Learning, Differential Privacy, and Encrypted Computation and Homomorphic Encryption within main deep learning frameworks. Used for computing on data you do not own and cannot see.

**Resource Type:** software resource

**Keywords:** Private Deep Learning, deep learning, decouples private data, unseen data computing

**Availability:** Free, Available for download, Freely available

**Resource Name:** PySyft

**Resource ID:** SCR\_021012

**License:** Apache License 2.0

**Record Creation Time:** 20220129T080353+0000

**Record Last Update:** 20260725T190939+0000

### Ratings and Alerts

No rating or validation information has been found for PySyft.

No alerts have been found for PySyft.

### Data and Source Information

## Usage and Citation Metrics

We found 9 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [nidm-terms](#) .

Ben Othman S, et al. (2025) Quantum-entangled neuro-symbolic swarm federation for privacy-preserving IoMT-driven multimodal healthcare. Scientific reports, 15(1), 44622.

Zhou W, et al. (2025) DualMask: Federated optimization of privacy-utility-efficiency trilemma via orthogonal gradient perturbation and RL-optimized PSO. PloS one, 20(12), e0338822.

Chakshu NK, et al. (2024) Orbital learning: a novel, actively orchestrated decentralised learning for healthcare. Scientific reports, 14(1), 10459.

Li W, et al. (2023) COLLAGENE enables privacy-aware federated and collaborative genomic data analysis. Genome biology, 24(1), 204.

Saldanha OL, et al. (2023) Direct prediction of genetic aberrations from pathology images in gastric cancer with swarm learning. Gastric cancer : official journal of the International Gastric Cancer Association and the Japanese Gastric Cancer Association, 26(2), 264.

Rischke R, et al. (2022) Federated Learning in Dentistry: Chances and Challenges. Journal of dental research, 101(11), 1269.

Li D, et al. (2022) Blockchain for federated learning toward secure distributed machine learning systems: a systemic survey. Soft computing, 26(9), 4423.

Senanayake N, et al. (2022) NeuroCrypt: Machine Learning Over Encrypted Distributed Neuroimaging Data. Neuroinformatics, 20(1), 91.

Lepri B, et al. (2021) Ethical machines: The human-centric use of artificial intelligence. iScience, 24(3), 102249.