

Resource Summary Report

Generated by SPARC SAWG on Aug 25, 2026

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: 20260815T182649+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 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

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.

Badhib A, et al. (2025) IoT Authentication in Federated Learning: Methods, Challenges, and Future Directions. Sensors (Basel, Switzerland), 25(24).

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.

Reer A, et al. (2023) FAIR human neuroscientific data sharing to advance AI driven research and applications: Legal frameworks and missing metadata standards. Frontiers in genetics, 14, 1086802.

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

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

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.