## REVOLUTIONISING CLOUD COMMUNICATION

Privacy preserving federated machine learning and block chaining for reduced cyber risks in a world of distributed healthcare



## OUR VISION

We envision a future in which doctors can easily and safely store, access and manage primary medical patient data without risking a privacy breach, and in which patients have full control and can change their mind at any time on what information they want to share or keep private. At the same time, researchers should have better, ideally global access to truly anonymous medical and biomedical data in order to study and understand diseases and accelerate the development of novel treatments. Legally and technically, we only see one secure solution for these two seemingly conflicting objectives: (1) all potentially insecure data

communication is kept in decentralized form within local, firewall-protected hospital IT systems (highest-possible security, no single point of attack), (2) local, decentralized artificial intelligence (AI) software is active behind these firewalls, and (3) only federated machine learning features that cannot be tracked back to sensitive patient data are transferred to a centralized, yet transient cloud. FeatureCloud is a novel artificial intelligence (AI) platform, based on a ground-breaking new cloud infrastructure to integrate local AI globally without the need for any transfer of primary medical data totally anonymous by default.



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