Secure Distributed Analytics

This approach is crucial in scenarios where data cannot be centralized due to privacy concerns, regulatory requirements, or practical constraints.

- data are distributed across multiple locations or managed by multiple parties
- data are processed in the cloud
- sensitive information must not be disclosed during the analytics process
- protection of data and ML models
- secure multiparty computation
- (threshold) homomorphic encryption
  - OpenFHE framework
  - C++ / Python binding
- lattice-based / LWE / post-quantum
- 1 master thesis started

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