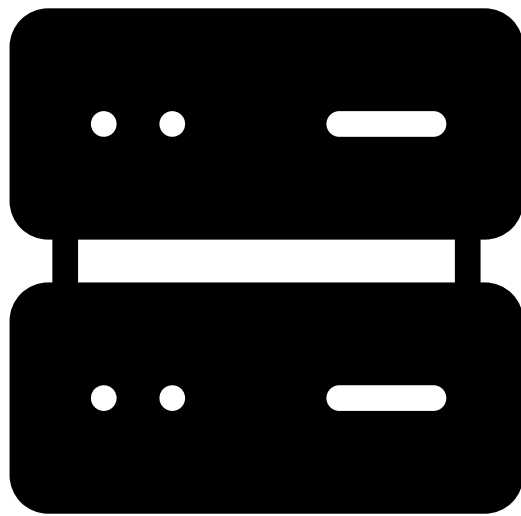


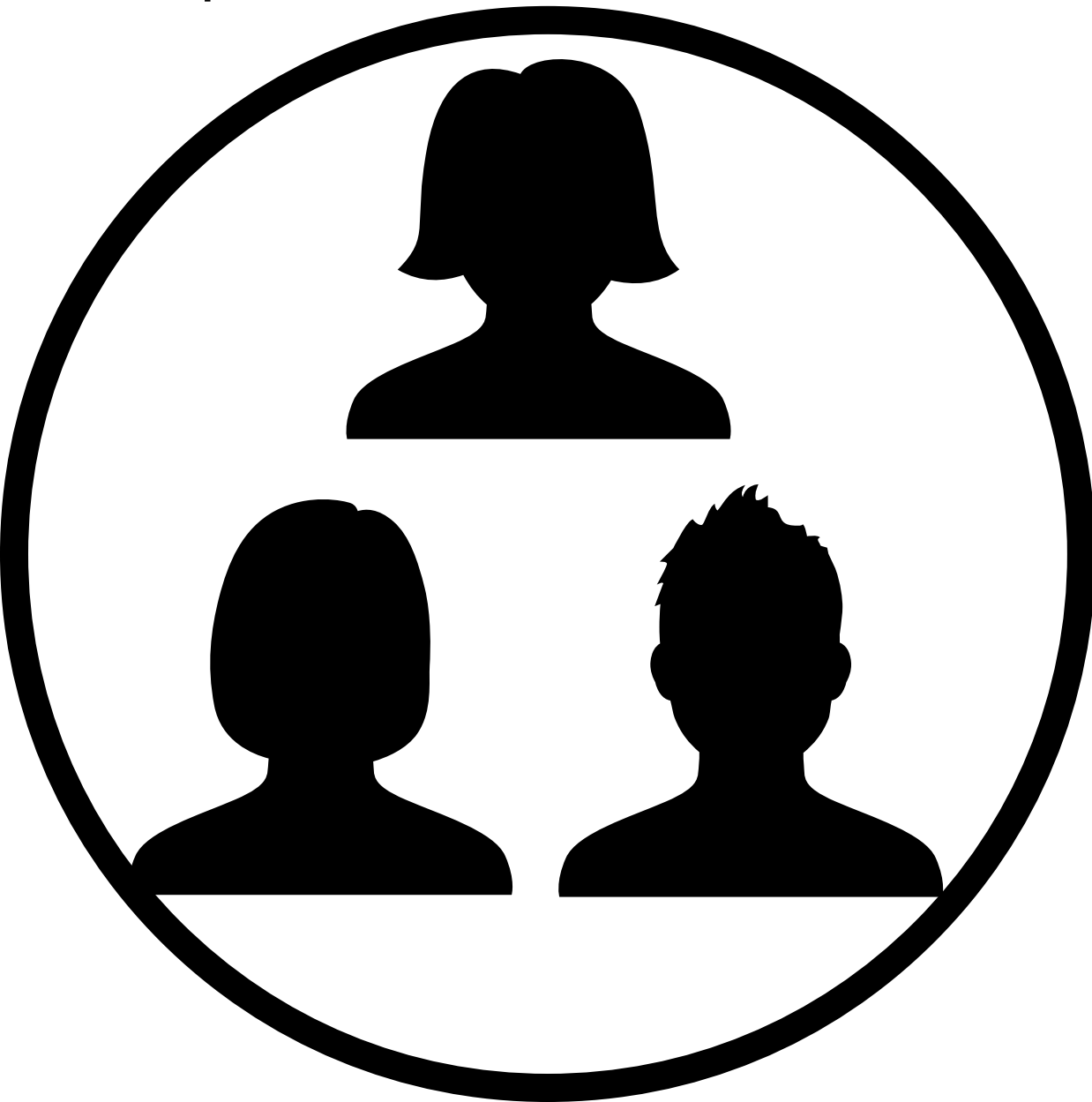
Encrypted Database



Queries



$E_{pk}(\text{COMMUNITY DATA})$



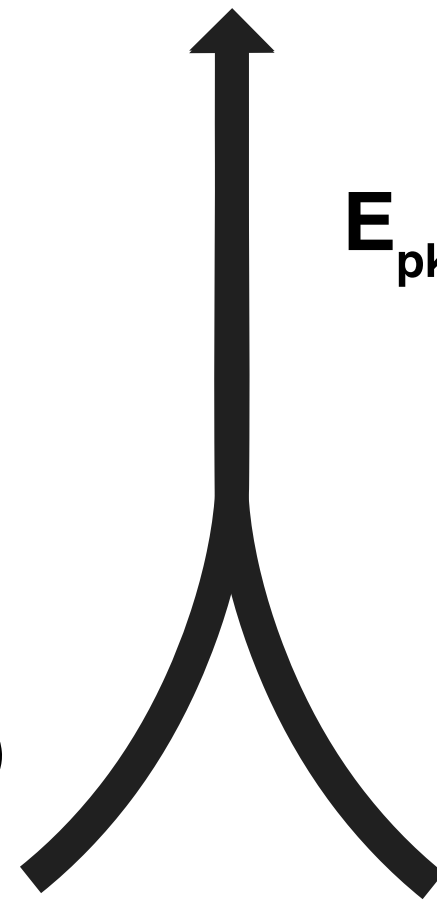
Trusted Execution Environment

Enclave Keypair:
(sk, pk)

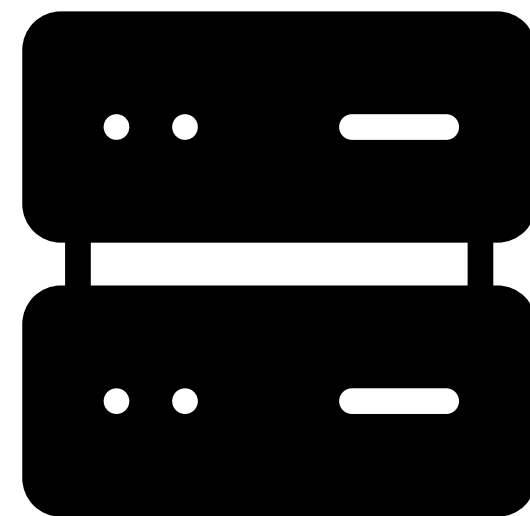
Pretrained
Language Model



$E_{pk}(X, D)$



X: PRIVATE
QUERY



D: PERSONAL
PRIVATE DATA