

AIML PhD Research Proposals in Fintech Domain

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Option 1:

Blockchain-Enhanced Homomorphic Encryption for Privacy-Preserving Tokenized Assets in FinTech

Proposing a novel integration of FHE with blockchain technologies to secure tokenized asset transfers in FinTech, leveraging 2025 PET advancements to ensure privacy and scalability in tokenized financial ecosystems

Option 2:

Energy-Efficient Homomorphic Encryption Protocols for Mobile FinTech Applications

Advancing lightweight FHE algorithms for mobile FinTech platforms, integrating PETs to enable secure, on-device financial computations, such as encrypted budgeting or loan processing, with minimal energy overhead.

Option 3:

Quantum-Inspired Reinforcement Learning Algorithms for High-Dimensional ESG Portfolio Optimization

Develops on quantum-inspired RL techniques to solve high-dimensional dynamic portfolio problems in ESG investing, improving scalability and efficiency.