

**Title:** Mutable and Immutable Blockchain Architecture: A Fair Comparison of Performance: security, privacy, cost-effective, and resource efficiency.

**Brief description:**

We have two types of Blockchains. Immutable and mutable. We use PoS to validate transactions. Smart Contracts are self-executing contracts deployed on the Blockchains. They automate specific actions based on predefined conditions.

**The goal of our proposal:**

We want to evaluate the performance of mutable and Immutable blockchains.

**Metrics for performance evaluation:**

**Transaction throughput:** The number of transactions that can be processed per second.

**Latency:** The time it takes for a transaction to be confirmed.

**Data confidentiality:** The ability to protect sensitive data from unauthorized access.

**Resistance to attacks:** The ability to withstand attacks such as double-spending, Sybil attacks, and 51% attacks.

**Fault tolerance:** The ability to continue operating in the face of failures or disruptions.

**Transaction fees:** The cost of processing transactions.

**Energy consumption:** The energy required to operate the network.

**Computational overhead:** The amount of computational resources required to process transactions.

**Storage requirements:** The amount of storage needed to maintain the blockchain.

**Languages:** Solidity for smart contracts and python.