



we analyze different adversarial models for Cloud Service Providers and propose security frameworks based on secret sharing and SMC for secure enterprise data and computation outsourcing to the cloud. Using a similar framework, we also propose how users of mobile devices can ensure secure data and computation offloading to the cloud for achieving energy efficiency. Apart from this, we construct a privacy aware preference aggregation service considering different adversarial models for parties involved and an online service provider as a facilitator. In this context, we also propose a privacy-preserving multi-party preference aggregation protocol.