Project Design Phase-I
Proposed Solution Template

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Develop an AI-powered intrusion detection system capable of detecting unknown and zero-day attacks by identifying anomalous patterns in network traffic.
2	Idea / Solution description	Use AI models (Autoencoders, LSTM, Clustering) to learn normal traffic behavior and flag anomalies as potential intrusions in real-time.
3	Novelty / Uniqueness	Detects zero-day attacks without needing predefined signatures; adapts to new and evolving threats using self-learning AI models.
4	Social Impact / Customer Satisfaction	Increases cybersecurity, protects user data and privacy, reduces loss from cyberattacks, builds user trust, and supports safer digital environments.
5	Business Model (Revenue Model)	Offer the system as a SaaS (Software-as-a-Service) model to companies; charge subscription fees, provide premium threat intelligence updates, and consulting services.
6	Scalability of the Solution	Highly scalable—can be deployed on cloud networks, corporate infrastructures, IoT devices, and scaled across multiple industries and geographies.