

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	Team 9.1
Project Name	Network Anomaly Detection

Proposed Solution:

S.No	Parameter	Description
1	Problem Statement (Problem to be solved)	Some of the key issues to be solved include data collection and processing, anomaly identification, and training the AI model.
2	Idea / Solution description	Creating a tool that uses an AI model with algorithms to detect anomalies in network traffic
3	Novelty / Uniqueness	Decentralized Anomaly Detection - Exploring decentralized or federated learning techniques, allowing anomaly detection models to be trained locally within various segments of a network, preserving data privacy while collectively contributing to a global anomaly detection model.
4	Social Impact / Customer Satisfaction	By effectively detecting and preventing cyber threats, the tool contributes to securing sensitive information and data, protecting both businesses and individuals from potential breaches and cyberattacks. This fosters a safer digital environment, instilling confidence and trust among users.
5	Business Model (Revenue Model)	Subscription-Based Model
6	Scalability of the Solution	Employ cloud-based or distributed computing resources that can scale horizontally to handle increased data volumes and computational demands. Utilize scalable storage solutions like object storage or distributed file systems for storing and processing large amounts of network traffic data.