BUILDVERSE – PROBLEM STATEMENTS

This document contains the official problem statements for the BuildVerse Tech & Coding Competition. Participants may choose any one problem statement or opt for Open Innovation.

1. Smart Public Health Monitoring System – Build a platform to detect and respond to emerging public health risks using data analytics and alerts.
2. Intelligent Waste Management & Route Optimization – Design a system to optimize waste collection using real-time data and route planning.
3. Digital Learning Outcome Analytics Platform – Analyze student engagement and performance to generate insights for educators.
4. Smart Public Transport Tracking & ETA System – Develop a real-time transport tracking and ETA prediction solution.
5. AI-Assisted Farmer Advisory Platform – Provide personalized crop and farming recommendations using weather and soil data.
6. Predictive Traffic Congestion & Signal Optimization System – Use predictive models to manage traffic congestion and optimize signals.
7. Blockchain-Based Supply Chain Traceability Platform – Track products from origin to consumer with transparency and security.
8. AI-Driven Disaster Incident Prioritization Platform – Prioritize and route disaster reports using intelligent severity scoring.
9. Secure Digital Identity & Access Management System – Build a secure identity platform with consent-based access control.
10. Open Innovation – Propose and build an original, impactful, technology-driven solution to a real-world problem.