



Problem Statement's for Hack To Crack 2.0

1. Artificial Intelligence & Machine Learning (AI/ML)

- **Problem:** Develop a chatbot for mental health support that can identify user emotions and provide supportive responses based on a predefined knowledge base.
- **Problem:** Build an AI-powered recommendation system for farmers to select optimal crops based on soil type, weather conditions, and market demand.
- **Problem:** Design a machine learning model to predict and mitigate the risk of natural disasters like floods, earthquakes, or wildfires using satellite imagery and sensor data.

2. Web3 and Blockchain

- **Problem:** Create a blockchain-based voting system to ensure secure, transparent, and tamper-proof elections.
- **Problem:** Develop a decentralized platform for tracking the supply chain of medicines to combat counterfeit drugs.
- **Problem:** Implement a smart contract-based solution for dynamic carbon credit trading, incentivizing industries to adopt sustainable practices.

3. Sustainability

- **Problem:** Design a WebApp that helps users calculate their daily carbon footprint and provides tips for reducing it.
- **Problem:** Build a platform that connects local communities with excess food to nearby NGOs or shelters to reduce food wastage.
- **Problem:** Create a real-time water quality monitoring system using IoT and AI for lakes and rivers, with actionable insights for government agencies.

4. Education Technology (EdTech)

- **Problem:** Create a gamified learning app for kids to improve math and reading skills with interactive exercises.
- **Problem:** Develop an AI-powered tool that generates personalized study plans for students based on their learning speed, preferences, and strengths.
- **Problem:** Build a blockchain-based platform for issuing, verifying, and sharing academic credentials securely and globally.



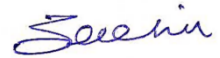
5. Healthcare

- **Problem:** Develop a telemedicine platform for connecting rural patients with doctors for online consultations and prescription generation.
- **Problem:** Create a system to predict and monitor early symptoms of chronic diseases (like diabetes or hypertension) using wearable devices and AI.
- **Problem:** Build a blockchain-powered electronic health record (EHR) system that ensures data privacy and allows seamless data sharing between hospitals.

6. Student Innovation

Students are welcome to bring their own problem statement but it should be solved the real world problem




Sachin Chaurasiya
Lead Organiser