Hackathon Problem Statements

Track 1: Web3

1. **NFT-based Digital Wills & Asset Inheritance**
Traditional inheritance systems involve legal complexities, high fees, and risks of asset mismanagement. Your task is to create a **blockchain-based inheritance system** where users can tokenize their assets (**cryptocurrency, real estate, intellectual property**) and establish **smart contracts** that trigger asset transfers upon verification of their passing. The system should be **tamper-proof, legally compliant**, and ensure **secure and automated** asset distribution.

2. **Instant Cross-Border Remittance via Stablecoins**
Millions of migrant workers face **high transaction fees and delays** when sending money home. Your challenge is to **build a blockchain-powered remittance system** using **stablecoins** to enable **instant, low-cost cross-border transactions**. The platform should focus on **financial inclusion, security, and regulatory compliance**, making international money transfers seamless for underserved communities.

Track 2: AI/ML

1. **Sentiment Analysis for Online Platforms**
Online platforms lack efficient tools to summarize and analyze **user sentiment** in comments. Content creators and organizations struggle to understand audience perspectives effectively. Your task is to develop an **AI-powered sentiment analysis tool** that can process user comments, detect **positive, negative, and neutral tones**, and generate **insights** that help content creators optimize engagement and decision-making.

2. **Multilingual Question-Answer Generator from PDFs**
Information retrieval from large PDFs is challenging, especially for multilingual users. Your challenge is to build a **multilingual question-answer generator** that can extract key insights from a PDF and **generate relevant questions and answers** in multiple languages. The system should leverage **NLP models, translation tools, and context understanding** to ensure accuracy and usability across diverse linguistic backgrounds.

Track 3: Open Innovation

*This track is for innovators who want to solve pressing real-world problems through technology. Whether it's a **social impact project, a developer tool, or a breakthrough application**, participants are encouraged to think beyond conventional boundaries.*

1. **Disaster Relief Coordination Platform**
   During natural disasters, relief efforts often face **communication gaps, inefficient resource allocation, and delays** in reaching affected communities. Your task is to develop a **real-time disaster relief coordination platform** that uses **crowdsourced data, geolocation tracking, and AI-driven demand prediction** to streamline aid distribution. The platform should enable **volunteers, NGOs, and government agencies** to coordinate relief efforts effectively and **respond faster to emergencies**.

2. **Smart Waste Management System**
   Urban areas face **inefficient waste collection, overflowing bins, and poor recycling rates**, leading to environmental hazards. Your challenge is to build a **smart waste management system** that uses **IoT sensors, AI-based waste categorization, and route optimization** to enhance **garbage collection efficiency**. The platform should provide **real-time bin status updates, predictive analytics for waste trends, and incentives for proper waste disposal**, promoting a cleaner and more sustainable environment.

This document sets the stage for participants to **explore, innovate, and build impactful solutions**. Let us know if you need any modifications!