

INFOSYS GLOBAL HACKATHON 2025



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Challenge 1 - Green Credits Marketplace: Empowering Small-Scale Climate Champions

Background: Small-scale farmers and community-led environmental projects across India face significant barriers in accessing lucrative carbon credit markets. Complex verification processes, high transaction costs, and lack of technical knowledge prevent grassroots climate initiatives from monetizing their environmental impact, limiting both financial sustainability and scaling potential.

Challenge Statement: Design and develop a transparent, user-friendly platform leveraging BECKN protocol and blockchain technology that simplifies carbon credit verification, enables seamless trading, and provides technical support for small-scale renewable energy and conservation projects to participate in global carbon markets.

Potential Impact: Incentivizes grassroots climate action, provides additional income streams for rural communities, and accelerates sustainable practices adoption.

#FinTech #blockchain #carbon credits #sustainability #climate action #rural empowerment

SDG: 1,7,13,15,17

Challenge 2 - PowerShare: Community Energy Trading Revolution

Background: Traditional centralized energy grids struggle to efficiently integrate distributed renewable energy sources like rooftop solar and small wind installations. Communities generating excess renewable energy lack accessible mechanisms to trade surplus power with neighbors, leading to energy waste and missed economic opportunities for prosumers.

Challenge Statement: Create an interoperable, cloud-native platform that enables secure peer-to-peer energy trading using smart contracts, real-time grid management, and seamless integration with existing energy infrastructure to facilitate community-based renewable energy sharing.

Potential Impact: Promotes renewable energy adoption, reduces grid dependency, and creates new economic opportunities for energy prosumers.

#EnergyTech #energy trading #blockchain #renewable energy #smart grid #sustainability

SDG: 7,9,11,13,17

Challenge 3 - ChargeSmart: AI-Driven EV Infrastructure Optimizer

Background: India's electric vehicle adoption faces significant challenges due to inadequate charging infrastructure, unpredictable wait times, and inefficient utilization of existing charging stations. Current systems lack real-time availability tracking, intelligent routing capabilities, and coordination between charging and battery swapping networks.

Challenge Statement: Develop an AI-powered platform that optimizes EV charging station utilization through predictive analytics, provides real-time availability and intelligent routing, and coordinates battery swapping networks to create a seamless EV user experience across Indian cities.

Potential Impact: Accelerates EV adoption, reduces charging wait times, and optimizes infrastructure utilization for sustainable transportation.

#MobilityTech #electric vehicles #AI optimization #smart cities #transportation #sustainability

SDG: 7,9,11,13,17

Challenge 4 - TrackSmart: Universal Logistics Visibility Platform

Background: Small businesses and consumers across India struggle with fragmented logistics tracking across multiple carriers and transport modes, leading to delivery uncertainties, customer dissatisfaction, and operational inefficiencies that particularly impact e-commerce growth in tier-2 and tier-3 cities.

Challenge Statement: Create an open-source, API-first platform built on BECKN protocol that provides unified tracking across different logistics providers and transport modes, offering real-time visibility, predictive delivery estimates, and seamless integration for businesses of all sizes.

Potential Impact: Improves supply chain transparency, reduces delivery uncertainties, and enables better customer experience for e-commerce.

#BECKN #logistics #supply chain #API integration #tracking #digital transformation

SDG: 8,9,11,12,17

Challenge 5 – EcoWarehouse: Sustainable Smart Warehousing Solutions

Background: Traditional warehousing operations consume excessive energy and generate significant waste. Many facilities lack real-time monitoring and optimization capabilities.

Challenge Statement: How can we build IoT-enabled, cloud-native systems that optimize warehouse energy consumption, reduce waste generation, and improve operational efficiency?

Potential Impact: Reduces carbon footprint of logistics operations, cuts operational costs, and promotes sustainable supply chain practices.

#AI #warehousing #IoT #sustainability #supply chain #energy efficiency

SDG: SDG12

Challenge 6 - WorkerBuild: Comprehensive Gig Economy Empowerment

Background: India's 400+ million seasonal and gig workers face critical challenges including unreliable job discovery, lack of skill verification systems, unfair wage negotiations, and absence of social security access, creating widespread economic vulnerability in the informal economy.

Challenge Statement: Create a comprehensive digital platform that connects workers with verified opportunities, implements blockchain-based skill certification, enables transparent wage negotiation, and provides access to benefits, financial services, and social security schemes for informal workers.

Potential Impact: Improves livelihood security for informal workers, enables skill-based matching, and provides social safety nets for vulnerable populations.

#LaborTech #gig economy #blockchain #workforce management #financial inclusion #skills verification

SDG: SDG8

Challenge 7 – AgriGuru: Intelligent Agricultural Advisory System

Background: Farmers lack access to real-time, localized information about crop selection, weather patterns, market prices, and sustainable farming practices, leading to suboptimal yields.

Challenge Statement: How can we develop an AI-powered advisory platform that provides personalized crop recommendations, weather forecasts, and market insights using satellite data and local sensors?

Potential Impact: Increases crop yields, reduces input costs, promotes sustainable farming practices, and improves farmer income.

#Agriculture #AI #satellite data #precision farming #rural development

SDG: SDG2

Challenge 8 - TrustLend: Transparent Microfinance Revolution

Background: Traditional microfinance institutions struggle with accurate credit assessment for India's 190 million unbanked population, leading to high default rates, limited financial inclusion, and perpetuation of poverty cycles due to lack of formal credit history and collateral.

Challenge Statement: Develop an AI-driven platform that leverages alternative data sources including mobile usage, utility payments, and social network analysis to assess creditworthiness, provide transparent microfinance services, and build credit histories for underserved communities.

Potential Impact: Expands financial inclusion, reduces lending risks, and provides fair access to credit for underserved populations.

#FinTech #AI #credit scoring #financial inclusion #microfinance

SDG: 1,8,10,16,17

Challenge 9 – SecureVerify: Digital Identity and Document Verification System

Background: Millions lack proper documentation for accessing government services, banking, and employment opportunities, creating barriers to social and economic participation.

Challenge Statement: How can we create a secure, blockchain-based digital identity platform that enables document verification and service access while preserving privacy and data sovereignty?

Potential Impact: Enables universal access to services, reduces bureaucratic barriers, and empowers individuals with control over their digital identity.

#Blockchain #digital identity #blockchain #privacy #government services #inclusion

SDG: SDG16

Challenge 10 – EarlyGuard: Community-Driven Disaster Early Warning System

Background: Rural communities are vulnerable to natural disasters due to inadequate early warning systems and limited communication infrastructure during emergencies.

Challenge Statement: How can we build a resilient, mesh-network-based early warning system that uses IoT sensors and community participation to predict and respond to natural disasters?

Potential Impact: Saves lives through early warnings, builds community resilience, and enables coordinated disaster response in remote areas.

#AI#disaster management #IoT #mesh networks #community resilience #early warning

SDG: SDG11

Challenge 11 - Service Transparency: Open Government Service Revolution

Background: Citizens across India face significant challenges accessing government services due to bureaucratic inefficiency, corruption, lack of transparency, and complex procedures that disproportionately impact marginalized communities and rural populations.

Challenge Statement: Create an open-source digital platform that streamlines public service delivery, ensures transparency through blockchain-based process tracking, enables citizen feedback and accountability mechanisms, and provides multilingual support for inclusive access.

Potential Impact: Reduces corruption, improves service delivery efficiency, and enhances citizen trust in government institutions.

#GovTech#e-governance #blockchain #transparency #citizen services #accountability

SDG: 16,10,9,17,11

Challenge 12 – SmartRecycle: Circular Economy Waste Management Platform

Background: Urban waste management systems are inefficient, with limited recycling and reuse, leading to environmental degradation and resource waste.

Challenge Statement: How can we create a platform that connects waste generators with recyclers, tracks material flows, and incentivizes circular economy practices using blockchain and AI?

Potential Impact: Reduces waste generation, promotes recycling and reuse, and creates economic opportunities in the circular economy.

#circular economy #waste management #blockchain #sustainability #urban planning

SDG: SDG12

Challenge 13 - SkillBridge: Adaptive Digital Empowerment Platform

Background: Rural youth and women across India lack access to relevant digital skills training that matches industry demands, limiting their employment opportunities in the rapidly growing digital economy and perpetuating urban-rural economic disparities.

Challenge Statement: Create an adaptive learning platform that provides personalized digital skills training based on individual aptitude and local job market demands, offers blockchain-verified certifications recognized by employers, and includes mentorship and job placement support.

Potential Impact: Enhances employability, bridges the digital divide, and creates pathways for economic empowerment in rural areas.

#EdTech #digital literacy #education technology #blockchain credentials #rural empowerment #skills development

SDG: 4,5,8,10,17

Challenge 14 - MedChain: Healthcare Supply Integrity Platform

Background: India's healthcare supply chain suffers from counterfeit drugs (estimated 25% of medicines), frequent stockouts, and inefficient distribution systems that particularly affect rural healthcare facilities and vulnerable populations' access to safe medicines.

Challenge Statement: Create a blockchain-based platform that ensures drug authenticity through tamper-proof tracking, monitors inventory in real-time, optimizes distribution networks, and provides predictive analytics to prevent stockouts in remote healthcare facilities.

Potential Impact: Ensures drug safety, reduces healthcare supply chain inefficiencies, and improves medicine availability in underserved areas.

#HealthTech #healthcare supply chain #blockchain #drug authentication #inventory management #rural healthcare

SDG: 3,9,12,17,10

Challenge 15 – IntelliDataOps: Open Data Interoperability for Government Services

Background: Government departments operate in silos with incompatible data systems, hindering efficient service delivery and evidence-based policy making.

Challenge Statement: How can we create open-source data integration tools that enable interoperability between government systems while maintaining security and citizen privacy?

Potential Impact: Improves government efficiency, enables data-driven policy making, and enhances citizen service delivery.

#Blockchain#open data #government interoperability #data integration #e-governance #policy making

SDG: SDG16

Challenge 16 - MigrantConnect: Portable Services for Mobile Workers

Background: India's 450 million internal migrant workers face significant barriers accessing healthcare, education, and social services when moving between states due to documentation challenges, bureaucratic complexities, and lack of portable benefit systems.

Challenge Statement: Develop a unified digital identity and services platform that ensures migrant workers can seamlessly access healthcare, education, financial services, and social benefits regardless of their current location, with multilingual support and offline capabilities.

Potential Impact: Improves service delivery for migrants, reduces administrative barriers, and ensures equitable access to government programs across state boundaries.

#GovTech #digital identity #migrant workers #government services #interoperability #social inclusion

SDG: 1,8,10,16,17

Challenge 17 – GreenTex: Sustainable Supply Chain Management for Textiles

Background: India's textile industry faces increasing pressure to adopt sustainable practices, but small manufacturers lack tools to track environmental impact, ensure fair labor practices, and meet international sustainability standards.

Challenge Statement: How can we develop a comprehensive supply chain management platform that tracks sustainability metrics, ensures fair trade practices, and connects sustainable manufacturers with global markets?

Potential Impact: Promotes sustainable manufacturing practices, improves worker welfare, and enhances India's competitiveness in sustainable textile markets.

#Blockchain#sustainable manufacturing #supply chain #textiles #fair trade #environmental impact

SDG: 8,12

Challenge 18 - VillageStay: Authentic Rural Tourism Marketplace

Background: Rural tourism destinations across India lack digital presence and direct booking systems, limiting economic opportunities for local communities while travelers seek authentic experiences and sustainable tourism options that benefit local populations.

Challenge Statement: Develop a comprehensive platform that showcases authentic rural tourism experiences, enables direct community bookings, ensures fair revenue distribution to local stakeholders, and promotes sustainable tourism practices with cultural preservation focus.

Potential Impact: Promotes rural economic development, preserves cultural heritage, and creates sustainable tourism opportunities.

#TourismTech #rural tourism #digital marketplace #community empowerment #cultural preservation
#sustainable tourism

SDG: 1,8,11,12,17

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