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Innovation, Education, and Social Progress: The Vision of MBMC IdeaX 2026

Innovation has become increasingly important in addressing the complex social, environmental, economic, and technological challenges facing humanity. MBMC IdeaX 2026, organized by Madan Bhandari Memorial College, represents an educational platform designed to encourage young people to transform creative ideas into practical solutions. The event reflects a broader understanding of higher education in which academic institutions are expected not only to transmit knowledge but also to promote critical thinking, creativity, leadership, social responsibility, and community engagement.

Madan Bhandari Memorial College, a QAA-certified and Tribhuvan University-affiliated community institution, is committed to academic excellence, research, inclusion, and civic engagement. Its educational philosophy extends beyond academic achievement to developing capable and responsible graduates who can address contemporary societal challenges. IdeaX 2026 reflects this commitment by linking academic learning with innovation and practical problem-solving.

The fourth series of IdeaX attracted 160 registered teams, from which 20 were selected through a competitive online process. The participation of students from both within and outside the Kathmandu Valley demonstrates the growing interest of young people in creativity and innovation. It also highlights the principle that talent is not limited by geographical location and that capable students from diverse communities should have opportunities to present and develop their ideas.

IdeaX 2026 focuses on five major thematic areas: climate change and sustainability, tourism, e-governance and smart public services, smart urban transport and road safety, and FinTech and digital financial innovation. These areas represent important challenges for humanity. Climate innovation can support sustainable development and environmental protection while innovation in tourism can strengthen local economies preserving

cultural and natural heritage. Similarly, e-governance can improve the accessibility, transparency, and efficiency of public services, while smarter transport systems can contribute to safer and more sustainable urban environments. Financial technology may also expand access to financial services, provided that cybersecurity, privacy, consumer protection, financial literacy, and inclusion remain central concerns.

Despite their differences, these themes share a common objective: improving human life through responsible innovation. Effective innovation should therefore address genuine social needs rather than focus exclusively on technological sophistication. Young innovators must identify real problems, consider the benefits from proposed solutions, evaluate accessibility and affordability, and determine whether their ideas can function beyond academic presentations.

Education has a significant role in developing this innovative capacity. Universities and colleges should produce graduates who can think critically, communicate effectively, act ethically, create employment opportunities, and contribute meaningfully to society. Innovation also requires persistence, experimentation, collaboration, reflection, and the ability to learn from failure. IdeaX 2026 therefore represents more than a competition; it is a platform for developing confidence, receiving constructive feedback, building professional relationships, and translating knowledge into social progress.

Ultimately, humanity's future development will depend significantly on young people who can combine imagination with responsibility. Sustainable and inclusive progress requires innovators who understand that technology should serve society, strengthen communities, and improve human well-being.

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 New Baneshwor, Kathmandu

MBMC IdeaX-2026

Turning Ideas into Solutions with Real-World Impact

Madan Bhandari Memorial College proudly presents MBMC IdeaX 2026, the fourth edition of its prototype-based national hackathon dedicated to transforming innovative ideas into practical, technology-driven solutions.

Organized under the theme ‘Innovation for Impact’, MBMC IdeaX 2026 brings together students— developers, designers, emerging innovators alongwith mentors, judges, industry professionals, and partner organizations in a focused environment where creativity, technology, collaboration, and social responsibility come together.

Unlike broader year-round academic and innovation activities, MBMC IdeaX is a dedicated, time-bound hackathon designed as an intensive innovation sprint. Participants are challenged to identify meaningful real-world problems, develop workable solutions, and transform their ideas into prototypes capable of creating tangible value for society.

Vision of MBMC IdeaX

MBMC IdeaX was created to provide aspiring innovators with a platform where ideas can move beyond discussion and become functional solutions, thereby using emerging information technologies to respond to social and economic challenges. Technologies such as Artificial Intelligence, Machine Learning, Internet of Things, cybersecurity, data science, cloud technologies, and web and mobile application development can help participants explore new ways of improving services, increasing accessibility, strengthening decision-making, and solving problems more efficiently.

The central purpose of MBMC IdeaX is therefore not simply to build technology, but to build technology with purpose.

Key Objectives of MBMC IdeaX 2026

MBMC IdeaX 2026 aims to:

- Foster Innovation by encouraging creative thinking and original solutions to real-world challenges.
- Promote Technology by providing opportunities to apply AI, ML, IoT, cybersecurity, software development, and related technologies.
- Develop Practical Skills through hands-on problem-solving, teamwork, product development, and delivery.
- Encourage Collaboration among students, developers, designers, entrepreneurs, and technology enthusiasts.
- Bridge Industry and Academia by creating meaningful connections between participants, institutions, and industry.

- Support Entrepreneurship by helping participants develop ideas with real commercial potential.
- Recognize Talent and provide organizations with opportunities to discover promising young innovators.
- Create Social Impact through solutions addressing meaningful challenges faced by society.

From Legacy to the Fourth Edition

MBMC IdeaX has continued to evolve with each edition.

2023 marked the inaugural edition, introduced as Nepal’s first indigenous language themed hackathon and delivered with UNESCO and the Ministry of Education, Science & Technology.

In 2024, the program expanded nationally, covering healthcare, education, environment, FinTech, cybersecurity, and decentralization, while also welcoming international participation.

The 2025 edition strengthened its industry alignment, focusing on AI, blockchain, agri-tech, climate action, and inclusive finance.

Now, MBMC IdeaX 2026 enters its fourth edition under the theme “Innovation for Impact,” featuring five focused challenge tracks and encouraging the use of technologies including AI, data science, IoT, cloud solutions, and web and mobile applications.

Challenge Tracks for 2026

Participants developed solutions within five priority areas:

Climate Change, Resilience & Sustainability

Solutions may address disaster preparedness, resource management, environmental sustainability, and related challenges.



Tourism

This track focuses on improving how people discover destinations, navigate locations, understand local culture, and access reliable information.



E-Governance & Smart Public Services

Participants explored solutions related to citizen services, accessibility, transparency, and data-driven governance.



Smart Urban Transport & Road Safety

This track covers traffic management, road safety, smart parking, and improved urban mobility.



FinTech & Digital Financial Innovation

Participants worked on challenges involving financial inclusion, digital lending, fraud detection, and personal finance.



Participants worked on challenges involving financial inclusion, digital lending, fraud detection, and personal finance.

Participation and 2026 Targets

MBMC IdeaX welcomes students, developers, designers, entrepreneurs, technology enthusiasts, and emerging innovators interested in solving real-world problems through technology.

For 2026, the event targets 2,000+ individual applications, 200 registered teams, 350+ participants, and 20 finalist teams. The program also aims to engage 20 mentors and judges, 10+ partner organizations, and generate 100,000+ social media impressions.

Competition Journey and Important Dates

The MBMC IdeaX 2026 journey began with registration, followed by an online selection round and the final hackathon event.

Main Event Registration Opend: 28th Shrawan 2083

Main Event Registration Closed: 16th Bhadra 2083

Online Round: 21st–28th Bhadra 2083

Final Hackathon Event: 16th–18th Asoj 2083

Selected finalist teams advanced to the final hackathon, where they further developed their ideas into working prototypes and present their solutions.

Mentorship, Prototype Development and Evaluation

MBMC IdeaX is designed as a collaborative innovation platform where participants can engage with mentors, judges, industry professionals, and supporting organizations.

During the hackathon process, teams focused on refining their problem statements, applying appropriate technologies, developing prototypes, and preparing clear presentations of their solutions.

The judging process focused on assessing participating solutions within the framework of the competition and its objective of encouraging practical, innovative, technology-driven ideas with real-world relevance.

Specific competition rules, detailed evaluation criteria, participation guidelines, mentorship arrangements, technical support provisions, awards, prizes, and recognition communicated through official MBMC IdeaX channels and event materials.

Building an Innovation Community

MBMC IdeaX 2026 is more than a competition. It is an opportunity to learn by building, collaborate across disciplines, connect academia with industry, and explore how technology can respond to important challenges.

By bringing together participants, mentors, judges, industry professionals, partner organizations, and the academic community, the event seeks to strengthen a culture of practical innovation and socially responsible problem-solving.

Be Part of MBMC IdeaX 2026

A meaningful solution often begins with one important question: What problem can we solve better?

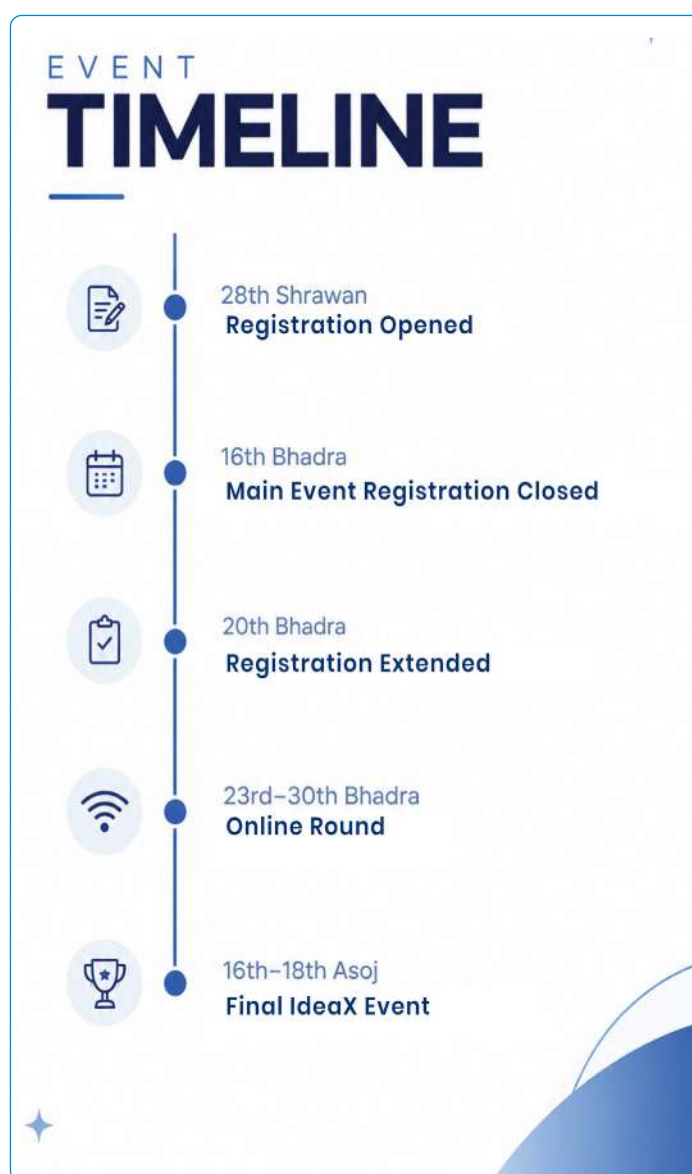
MBMC IdeaX 2026 invited aspiring innovators to bring their ideas, skills, curiosity, and creativity to a national platform where technology meets purpose.

Build. Collaborate. Prototype. Create Impact.

Join MBMC IdeaX 2026 — Innovation for Impact, and turn your idea into a solution that can make a difference.

Madan Bhandari Memorial College

New Baneshwor, Kathmandu, Nepal



MBMC IdeaX 2026 — Day 1 Summary

Asoj 16, 2083 | Friday

The first day of MBMC IdeaX 2026, the fourth edition of the inter-college IdeaX program, commenced at Madan Bhandari Memorial College with 20 finalist teams, mentors, judges, organizers, faculty members, volunteers and members of the wider IdeaX community coming together for a full day of innovation, collaboration and development.

The day began with registration, refreshments and networking before moving into the formal opening ceremony. The session was chaired by Mr. Mahendra Bahadur Pandey, Chairperson of the College Management Committee, while Dr. Tshering Lama, Executive Chairperson and Co-Founder of Idea Studio Nepal, attended as the keynote speaker.

The ceremony opened with the National Anthem, followed by the ceremonial lighting of the lamp and the presentation of bouquets in honor and memory of the late Madan Bhandari. The College Anthem followed, officially marking the beginning of the program. Co-Lead Krijal Paneru delivered the opening address, welcoming the guests, participants and organizing community, while a cultural dance performance added energy and color to the occasion.

Event General Manager Aswin Phuyal briefed participants on the hackathon's Code of Conduct and competition rules. Teams were reminded to maintain discipline, respect fellow participants and ensure the originality of their projects. The use of AI and open-source tools was permitted provided it was properly disclosed.



Welcoming the participants, Campus Chief Dr. Babu Ram Adhikari highlighted the college's commitment to education, innovation, inclusion, research and community engagement. He announced that IdeaX 2026 had received 160 team registrations, from which 20 finalist teams were selected through an online competitive process. He also emphasized the participation of teams from outside the Kathmandu Valley, reinforcing the idea that creativity and talent are not limited by geography.

Dr. Adhikari connected this year's five themes—Climate Change and Sustainability, Tourism, E-Governance and Smart Public Services, Smart Urban Transport and Road Safety, and Fintech and Digital Financial Innovation—with real-world challenges facing Nepal and beyond.

In his keynote address, Dr. Tshering Lama encouraged participants to move beyond theoretical knowledge and transform ideas into meaningful action. Drawing from his personal journey and experiences, he emphasized self-development, practical learning and making the most of opportunities such as IdeaX.

Closing the ceremony, Mr. Mahendra Bahadur Pandey encouraged participants to practice self-discovery, fact-based thinking and research-driven problem solving. He stressed the importance of first understanding a problem and its causes before attempting to design solutions.



Following the formal program, the finalist teams entered continuous hackathon development sessions supported by mentors Banshaj Poudel, Prameshwor Dahal, Er. Nishant Sapkota, Sailesh Singh and Rupesh Nepal. Teams worked throughout four development sprints to refine their concepts, prototypes and solutions.

Day 1 successfully balanced inspiration, technical development, mentorship and community interaction. With teams continuing to refine their projects into the evening, the opening day established a strong foundation for the remaining two days of MBMC IdeaX 2026.



MBMC IdeaX 2026 — Day 2 Summary

Ashoj 17, 2083 | Saturday

Day 2 of MBMC IdeaX 2026, the fourth edition of the national hackathon was dedicated to intensive development, mentorship and collaboration among the 20 finalist teams.

The day began with breakfast and refreshments arranged by the organizing and logistics teams. After working late into the previous night, participants used the morning to review their progress, identify remaining tasks and prepare for another full day of development. Teams were joined throughout the programme by mentors, faculty members, judges, organizers, volunteers and members of the wider IdeaX community. Prakash Khatri, General Manager for Nepal of Lesso Group China, attended the programme as an invitee and also provided mentorship to participants.



Development was organized into five sprint blocks, with breakfast, lunch and dinner breaks in between. Rather than treating the sprints as separate activities, teams worked continuously throughout the day, gradually transforming their ideas into functional prototypes and demonstrable solutions.

The 20 finalist teams competed across five major tracks:

Smart Urban Transport – 5 teams: Sparsha developed TriNetra, an AI-based traffic violation detection system; Team Friday worked on HerGuardian, a women-focused safer-route recommendation app; Vagabond developed Crash Capsule for tamper-evident road-crash documentation; 4NF built Bhada for distance-based bus fare calculation; and Phantom worked on GridSync, an adaptive traffic-signal system designed to remain operational during power outages.

Climate Change, Resilience & Sustainability – 4 teams: RELAY-X developed the Himalayan Resilience Grid, an off-grid early-warning network for floods and landslides; Vision Hackers worked on BeeGuard for detecting queenlessness in bee colonies through hive sounds; Buildakar Innovation

developed KhaadMitra for fertilizer and crop-disease guidance; and Panic Button worked on Maan-Barsha, combining disaster preparedness with calming support.



FinTech & Digital Financial Innovation – 4 teams: INNOVATORS developed TrustLayer for explainable credit assessment and fraud detection; Fintrace worked on an AI tool to extract and verify NEPSE quarterly reports; DeepStack developed KarobarAI, a voice-first Nepali assistant for small shopkeepers; and Team Koseli created ClaimSetu to support health-insurance claims review.

Tourism – 4 teams: Neural Nexus developed SafeTrails, an emergency communication network for trekkers outside mobile coverage; CodeBlooded worked on HamroSampada, a cultural discovery platform; Pomelo developed Sanskriti Snap, a gamified heritage-discovery app; and 14 Peaks built Chautari, an offline-capable travel planning system.

E-Governance & Smart Public Services – 3 teams: TechBenders developed VIDHAN, a multilingual legal-guidance chatbot; PropNexa worked on SPRS, a verified property-rental platform; and Matrix developed NagarSewa, a civic issue-reporting platform connecting citizens with local government.

Mentors, including Shishir Sapkota, Rupesh Nepal, Aashutosh Devkota, Nirjal Paudel, Surest Basnet and Samikshya Khadka, remained available throughout the day to help teams refine their scope, validate assumptions and resolve technical challenges.

Lunch and dinner breaks provided opportunities for participants to rest, exchange ideas and interact with other teams before returning to their development work. The collaborative atmosphere continued well into the night as teams refined their prototypes and prepared for the final presentations on Sunday, 4 October 2026.

Overall, Day 2 reflected the core spirit of MBMC IdeaX 2026—innovation, collaboration, mentorship and sustained problem-solving—as the finalists moved closer to transforming their ideas into practical solutions.

MBMC IdeaX 2026 — Day 3 Summary

Ashoj 18, 2083 | Sunday

Ideas Take the Stage as MBMC IdeaX 2026 Reaches Its Finale

The final day of MBMC IdeaX 2026 began before sunrise. At 6:00 AM the twenty finalist teams were back at their workstations for the last development sprint, an hour of debugging and polishing at the end of a 48-hour run that began with Friday's opening ceremony and carried through Saturday's sprints and games.

Breakfast at 7:00 AM gave a short pause. From 8:00 to 9:00 AM teams made their final changes and submitted their projects. At 9:00 AM the "spin the wheel" draw set the presentation order, and its suspense and laughter eased the tension. Pitching practice followed until 10:00 AM and lunch at 10:00 AM gave everyone a moment to settle before facing the judges.



Presentations and judging began at 11:00 AM. Each team had four minutes to pitch and three for questions from the judges. The prototypes spoke to Nepal's own challenges across five tracks: climate change and resilience, tourism, e-governance and smart public services, smart urban transport and road safety, and fintech and digital financial innovation. The sessions ran until 3:00 PM and showed how far the teams had come since Friday, when Campus Chief's Dr. Baburam Adhikari's welcome and skill mentor Dr. Tshering Lama's keynote had opened the event.

The closing ceremony began at 3:00 PM with the National Anthem, the lighting of the traditional lamp and a bouquet offered to the late Madan Bhandari. The college anthem

followed, then thanks from the IdeaX Co-Lead and the Steering Committee. Tokens of love and certificates of appreciation went to sponsors, partners, judges, mentors, faculty and student volunteers, whose work behind the scenes kept the event running.

Campus Chief Dr. Babu Ram Adhikari said that IdeaX has grown from a language-preservation initiative into a national platform. He congratulated all 67 participants from 28 institutions, saying, "Every team that reached this hall is already a winner; what you built here must now be carried into Nepali society."



Event Coordinator Nawaraj Joshi expressed his note of thanks to the mentors, judges and student organizers and reminded participants saying, "the teamwork and pressure you handled these three days will serve you in every career."

College Management Committee Chairman and Former Minister of Foreign Affairs Mahendra Bahadur Pandey, who chaired the three-day events expressed his concluding remarks to close the event by urging students to keep serving society through technology. He added, "Education is meaningful only when it solves the problems around us."

At 3:30 PM the winners were announced. (The details of the winners are proved with the attached and linked supplementary documents). Each of the five tracks has its own winner, followed by the Grand Winner of IdeaX 2026, who takes home the Rs 1,11,111 cash prize. A group photograph with the winners followed. The programme ended with snacks and networking from 5:00 PM, where teams, mentors and sponsors exchanged contacts and congratulations.

As participants leave the premises of MBMC, the memories go with them: Friday's opening, Saturday's games and bingo, and a Sunday of nerves, applause and achievement.

Thus, MBMC IdeaX-2026 turned several ideas into impact.



Team Sparsha

Team Members

- 1 Success Bishwakarma
- 2 Prajana Shrestha

Track: Smart Urban Transport

Project Title: TriNetra

Introduction: TriNetra is an AI-powered traffic violation monitoring system that analyzes traffic videos using YOLO-based object detection, object tracking, and backend rule-based analysis. It identifies violations such as no-helmet riding, red-light violations, overspeeding, wrong-lane driving, and triple riding, while generating evidence and structured incident records through a web dashboard.

Problem Statement: Manual traffic-video monitoring is time-consuming and violations can be missed. Raw footage also lacks structured records and easily accessible evidence for each violation.

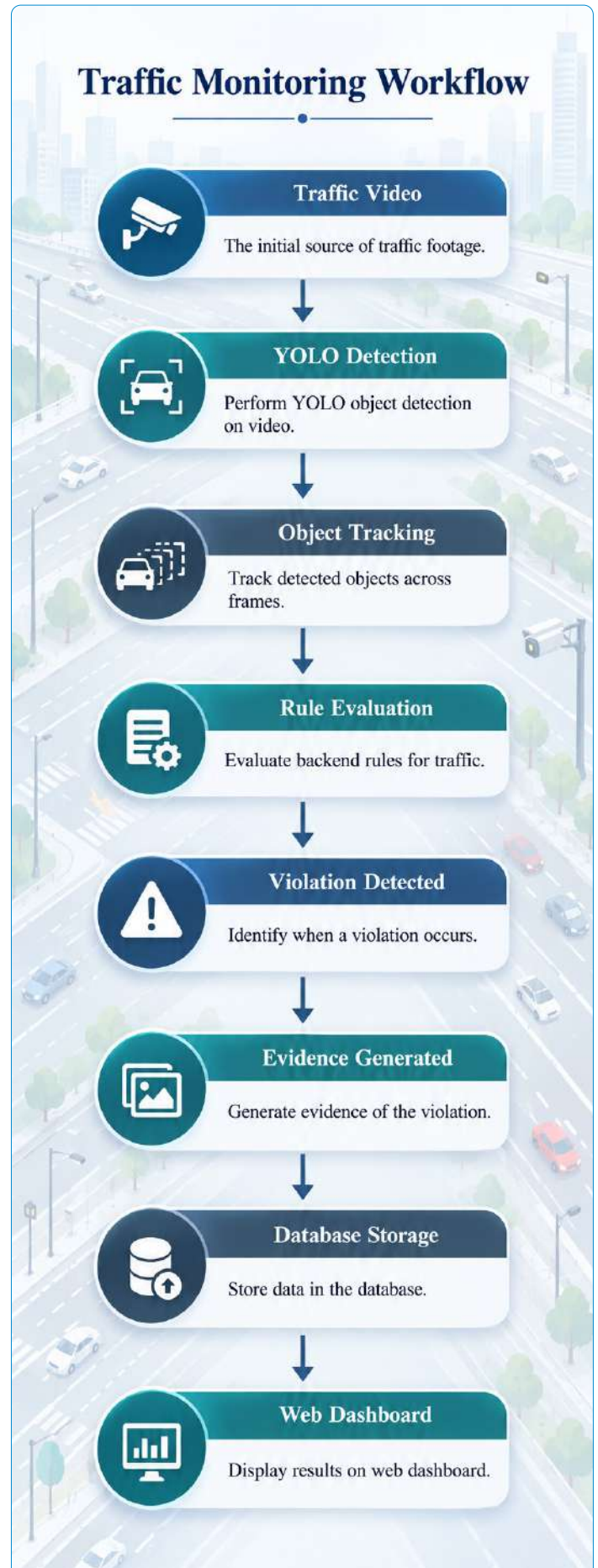
Proposed Solution: TriNetra uses YOLO detection, object tracking, and backend traffic rules to identify violations from video and automatically generated time-stamped evidence and structured incident records.

Key Features/Objectives

- o Detect key traffic violations using computer vision.
- o Generate evidence-backed, time-stamped incident records for monitoring and review.

Technology Stack

Python, YOLO, OpenCV, Object Tracking, Backend Rule Engine, Firebase, Web Dashboard, HTML, CSS, JavaScript





Team Innovators

Team Members

- 1 Pawan Pokharel
- 2 Kasam Thapa Magar
- 3 Samrat Ghimire

Track: FinTech

Project Title: TrustLayer

Introduction: TrustLayer is an AI-powered alternative credit-assessment and fraud-detection layer for banks, MFIs and cooperatives in Nepal. It helps assess thin-file micro-merchants using digital transactions, bill-payment behaviour, psychometric signals and community trust. It is assessment infrastructure, not a lender, delivering explainable scores, fraud signals, fairness checks and a path to improve, aligned with Nepal's expanding digital-lending ecosystem

Problem Statement: Many Nepali micro-merchants lack collateral and usable credit history, making risk difficult to assess. MSMEs face financing constraints, while digital and community signals remain underused.

Proposed Solution: TrustLayer combines behavioural data, psychometric signals and a fraud-aware trust graph to create an explainable credit assessment with risk alerts, fairness checks and clear improvement steps.

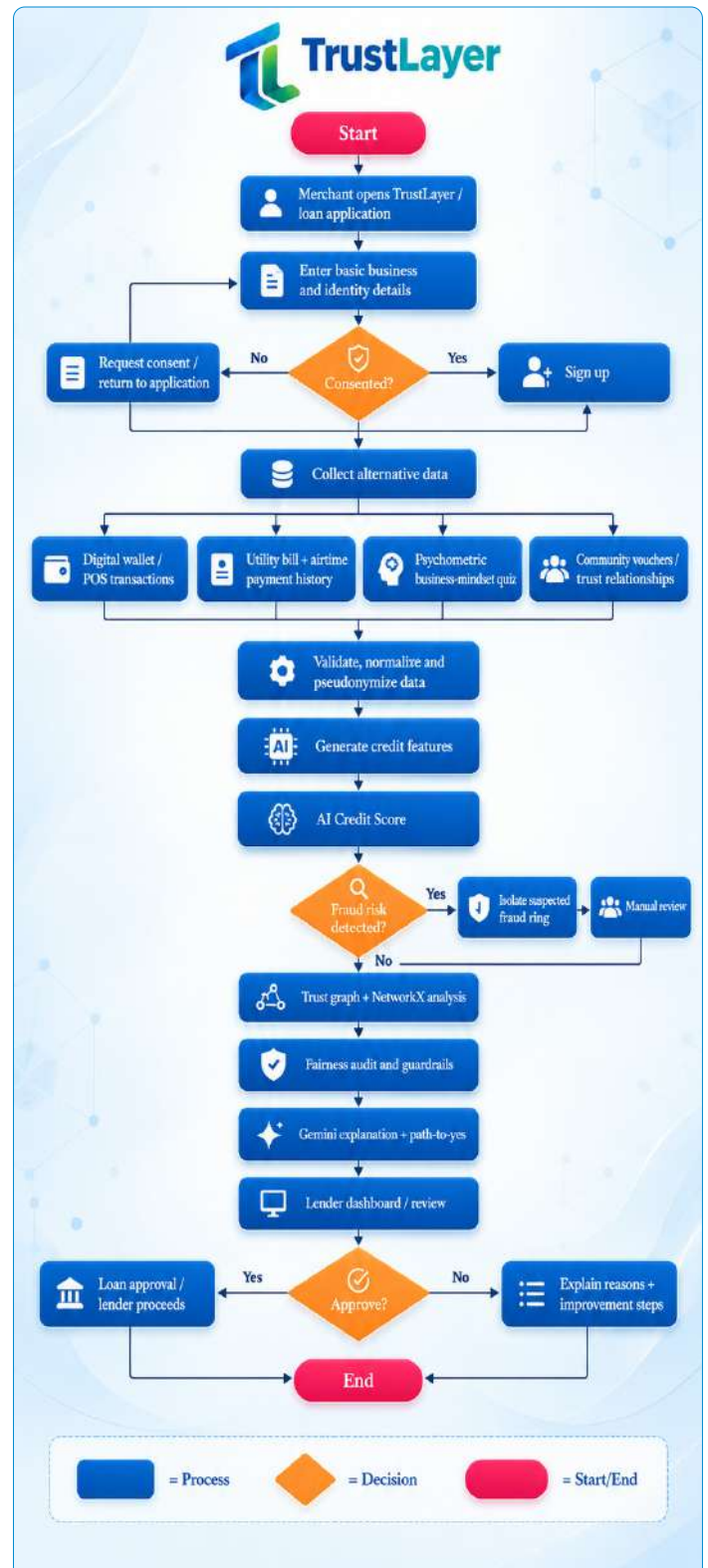
Key Features/Objectives

- o Expand explainable, multi-source credit assessment for thin-file micro-merchants.
- o Detect coordinated fraud while preserving fairness for legitimate borrowers.

Technology Stack:

- o **Programming:** Python, TypeScript, HTML/CSS
- o **Frontend:** React
- o **Backend:** FastAPI

- o **Database:** PostgreSQL
- o **AI:** Google Gemini API
- o **Fraud/Graph Analytics:** NetworkX
- o **Communication:** REST APIs, JSON
- o **Development Tools:** Git, GitHub
- o **Hardware:** Development laptop/PC





Team Friday

Team Members

- 1 Karan Regmi Kshetri
- 2 Niru Thapa
- 3 Samikshya Ranabhat
- 4 Upesh Bhujel

Track: Smart Urban Transport

Project Title: HerGuardian

Introduction: HerGuardian is a mobile-first safety app for women in Nepal. Every street carries a live Safety Score, so

the app recommends the safest route rather than the shortest. One-tap SOS dials a guardian, records audio and streams live location. Anonymous community reports re-score nearby streets, and the same data powers an authority dashboard offline. It still shows which direction is safer.

Problem Statement: Citizen and bSafe tell you about crime after it happens. Safetipin gives old survey scores. Nothing warns a woman before she walks a street, or lets her report one safely.

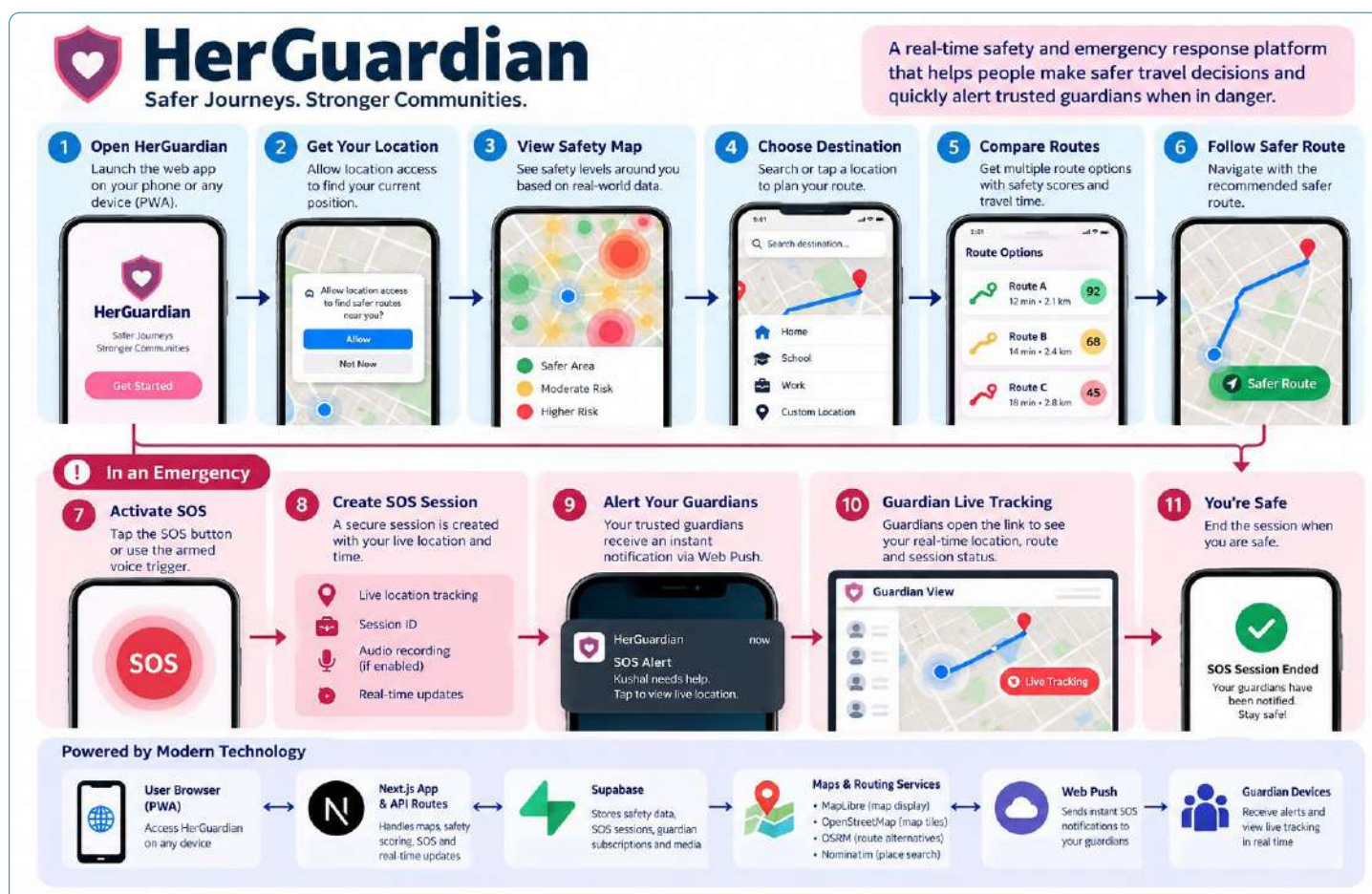
Proposed Solution: A 0-100 Safety Score per street (crime, reports, time, lighting, crowd) powers safest-not-shortest routing. One-tap SOS dials a guardian, records and streams live location. Anonymous reports re-score it.

Key Features / Objectives

- o Live Safety Score per street plus safest-not-shortest routing.
- o One-tap SOS that reaches a guardian even when she has no signal.

Technology Stack

- o **Language :** typescript, javascript, tailwind css, next js, maplibre gl, database supabase postgres, indexed db, backend/api : supabase auth, openstreetmap





Team Vision Hackers

Team Members

- 1 Pralad Neupane
- 2 Pratik Kattel
- 3 Ayush Ghimire
- 4 Badal Shrestha

Track: Climate Change

Project Title: BeeGuard

Introduction: BeeGuard is an AI-powered acoustic early-warning system for bee colony health. A low-cost, LoRa-connected sensor listens to each hive without opening it, and a CNN detects queenlessness from the sound. Beekeepers get in-app notification. It is built for hill beekeepers, cooperatives and cardamom farmers in Nepal.

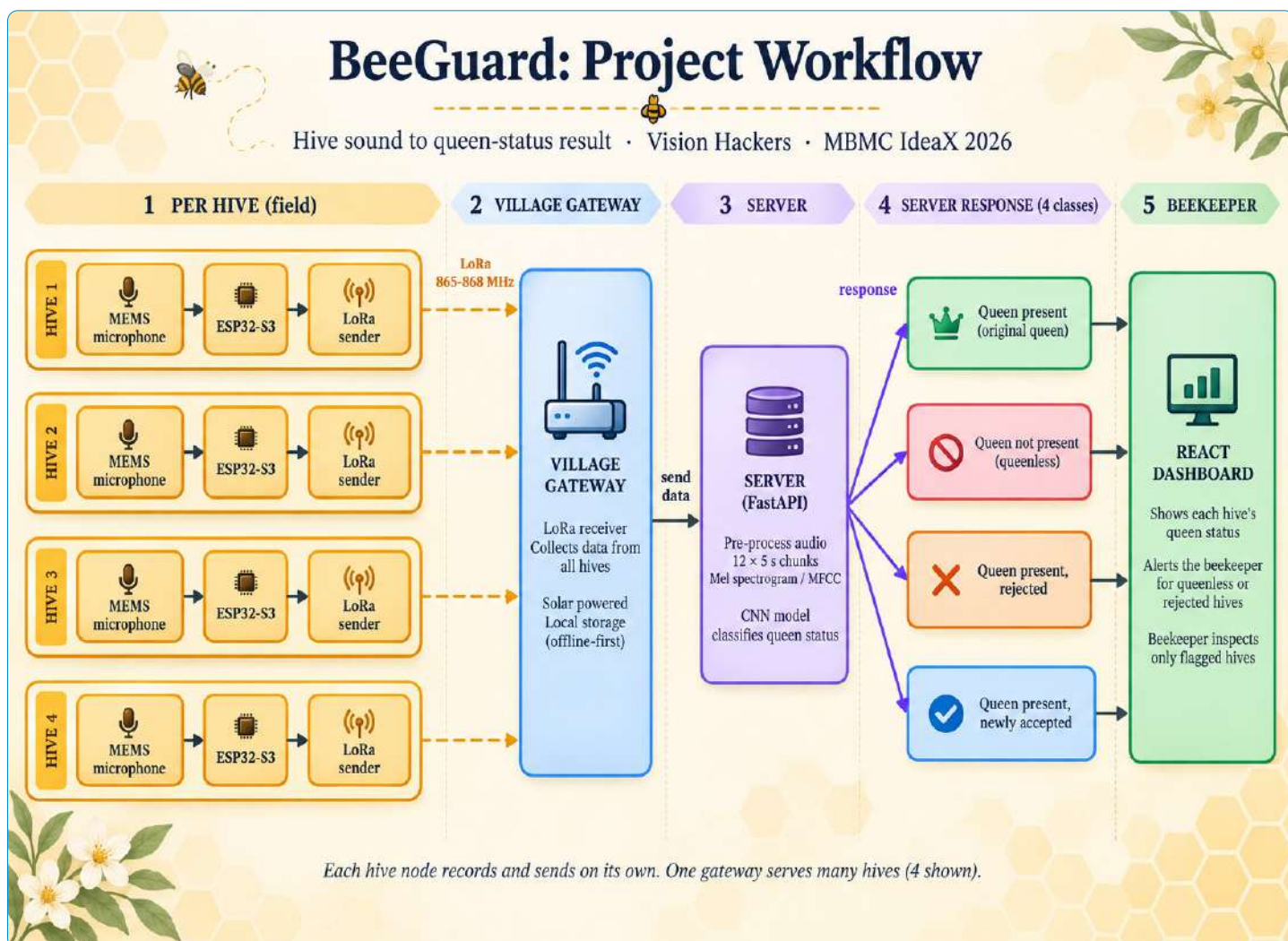
Problem Statement: BeeGuard is an AI early-warning system for bee health. A low-cost LoRa sensor listens to each hive, a CNN detects queenlessness from sound, and a dashboard tells beekeepers which hive to inspect.

Proposed Solution: Hive mics record sound; a CNN classifies queen presence and status. A live dashboard shows early-warning alerts so beekeepers inspect only flagged hives, early, without disturbing the colony.

Key Features / Objectives

- o Detect queenlessness early from hive sound, non-invasively.
- o Show real-time dashboard alerts with Nepali guidance so beekeepers act before the colony is lost.

Technology Stack: Python, keras, fastapi, react, hardware(future)





Team RELAY-X

Team Members

- 1 Saurav Karn
- 2 Diwas Parajuli
- 3 Chandrakant Shah
- 4 Karunanidhi Singh

Track: Climate Change

Project Title: Himalayan Resilience Grid

Introduction: The Himalayan Resilience Grid is an off-grid IoT early-warning platform. By combining ESP32 nodes—FloodWatch (floods), SlopeWatch (landslides), and TunnelSafe (worker SOS)—with LoRa relays, it bridges monitoring gaps where high-cost radar and cellular networks fail. Built for remote mountain communities, local municipalities, and hydropower workers, it delivers real-time alerts and local sirens to save lives.

Problem Statement: High equipment costs and failing cellular networks leave Himalayan communities and tunnel workers exposed to deadly floods and landslides. Our low-cost, off-grid IoT platform delivers early warnings.

Proposed Solution: We deploy low-cost ESP32 nodes (FloodWatch, SlopeWatch, TunnelSafe) using off-grid LoRa relays. A 4-tier risk engine converts sensor streams into real-time web alerts and local site sirens.

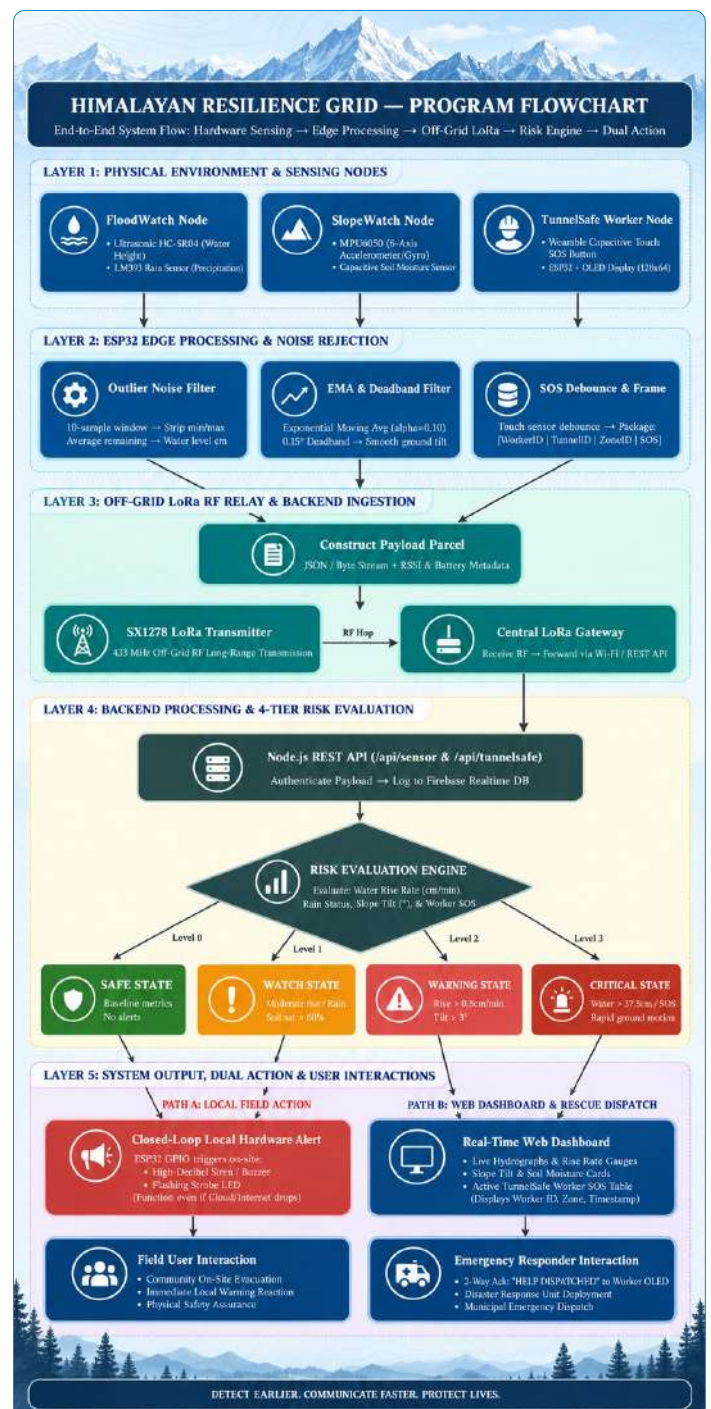
Key Features / Objectives

- o Develop low-cost IoT nodes (FloodWatch, SlopeWatch, TunnelSafe) for multi-hazard tracking.
- o Deploy off-grid LoRa networks to deliver real-time alerts and local sirens.

Technology Stack

- o **Languages:** C/C++, JavaScript, HTML, CSS
- o **Frontend:** HTML, CSS, JavaScript
- o **Backend:** Node.js, Express.js

- o **Database:** Firebase
- o **API:** REST API, HTTP/HTTPS, JSON
- o **Communication:** LoRa, Wi-Fi
- o **Microcontroller:** ESP32
- o **Sensors:** LORA module, Ultrasonic sensor, Rainfall sensor, Soil-moisture sensor, MPU6050 motion sensor
- o **Display:** 16×2 LCD, 0.96" OLED
- o **LoRa:** SX1278 / RA-01
- o **Protocols:** SPI, I²C, GPIO
- o **Development Tools:** Arduino IDE, VS Code, Git/GitHub





Team Neural Nexus

Team Members:

- 1 Utkrista Adhikari
- 2 Nishant Kumar Kharga
- 3 Alishiba Adhikari
- 4 Stuti Poudel

Track: Tourism

Project Title: SafeTrails

Introduction: SAFETRAILS is a resilient emergency communication network for trekkers in remote areas where cellular networks fail. It enables SOS alerts, GPS location sharing, and two-way communication using BLE and LoRa. If LoRa is unavailable, BLE allows messages to hop between nearby devices until they reach a connected node. SAFETRAILS keeps tourists connected to rescuers when conventional networks cannot.

Problem Statement: Existing SOS systems fail in emergency dead zones where cellular networks drop and satellite tech isn't supported like in Nepal.

Proposed Solution: SafeTrails uses mesh networking and offline radio signals to broadcast location-aware SOS alerts without cell service or satellites. It turns nearby devices into a decentralized emergency network.

Key Features/Objectives

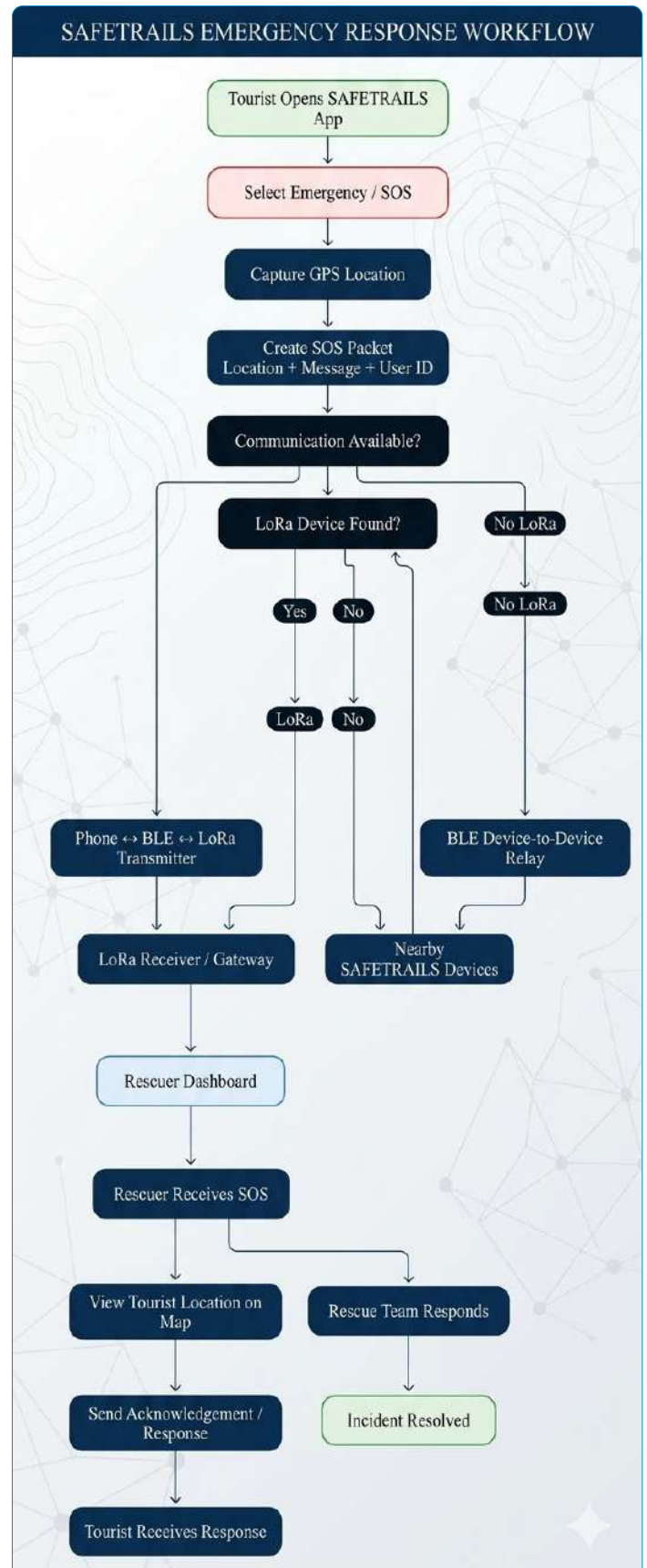
- o LoRa Mesh SOS Relay: Broadcasts location packets across a decentralized mesh network, bypassing cell towers entirely.
- o Way Rescue Comms: Enables direct offline victim-to-rescuer communication.

Technology Stack

- o **Hardware & Firmware:** ESP32 Microcontroller, SX1276/SX1278 LoRa Module (433/915 MHz), C++ / Arduino Framework. Mobile App Framework: Flutter (Dart) for cross-platform iOS & Android offline operation. Wireless Protocols & Networking: LoRa Mesh Protocol

(Long-range RF), Bluetooth Low Energy (BLE) / Wi-Fi Direct for Phone-to-Node bridging.

- o **Language:** C++, JavaScript, CSS, C, Kotlin, Dart





Team Buildakar Innovation

Team Members

- 1 Sushant Karki
- 2 Sudin Bhattarai
- 3 Sujib Shrestha
- 4 Bishal Chaudhary

Track: Climate Change

Project Title: KhaadMitra

Introduction: Farmers receive plenty of data regarding their farms, soils and crops via various people but very little guidance. Khaadmitra is a smartphone app plus a low-cost IoT sensors that measures fertilizer's NPK values, compares them with the crops they want to grow, nutrients needed for the growth stage, detects diseases from a leaf photo and generate farming plans with reminders. Every output is phrased as a next action, not just raw numbers.

Problem Statement: Farmers guess fertilizer use without knowing if soil nutrients, pH and conditions suit the crop, spot leaf diseases too late, and miss key tasks. Raw sensor data doesn't tell them what to do next.

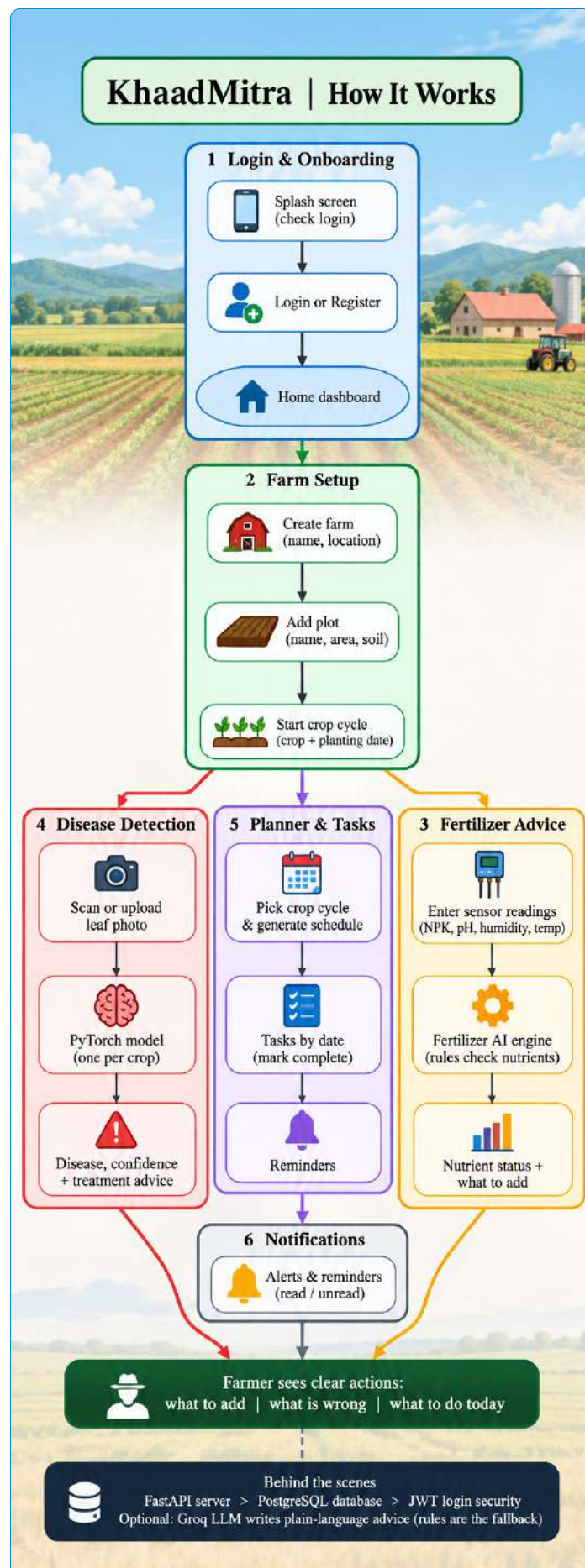
Proposed Solution: Farmers enter NPK, pH, humidity and temperature to get nutrient status and clear fertilizer advice. They scan a leaf for disease, confidence and treatment, and get a crop schedule with reminders.

Key Features/Objectives

- o Give clear fertilizer advice from NPK, pH and climate readings.
- o Detect crop diseases from leaf photos with confidence and treatment tips, and plan tasks with reminders.

Technology Stack

Flutter, Dart, Python, FastAPI, PostgreSQL, PyTorch (CNN transfer learning), LLM API, ESP32, NPK sensor, REST APIs, JWT auth.





Team FinTrace

Team Members

- 1 Sonu Thakur
- 2 Pritika Nakarmi
- 3 Aayush Kumar Jha

Track: Fintech

Project Title: Fintrace

Introduction: FinTrace is an AI financial intelligence and platform for NEPSE investors and analysts. It eliminates tedious manual data entry by extracting and mathematically verifying quarterly reports directly from company PDFs. FinTrace cross-checks accounting notes, runs DCF and valuation models, tracks live market trends, and exports dynamic CSV datasets for instant use in Excel and Sheets, empowering retail investors and financial institutions with institutional-grade research.

Problem Statement: NEPSE financial reports are trapped in unstructured PDFs with errors and manual latency, leaving retail investors blind and causing costly valuation mistakes in an inefficient capital market.

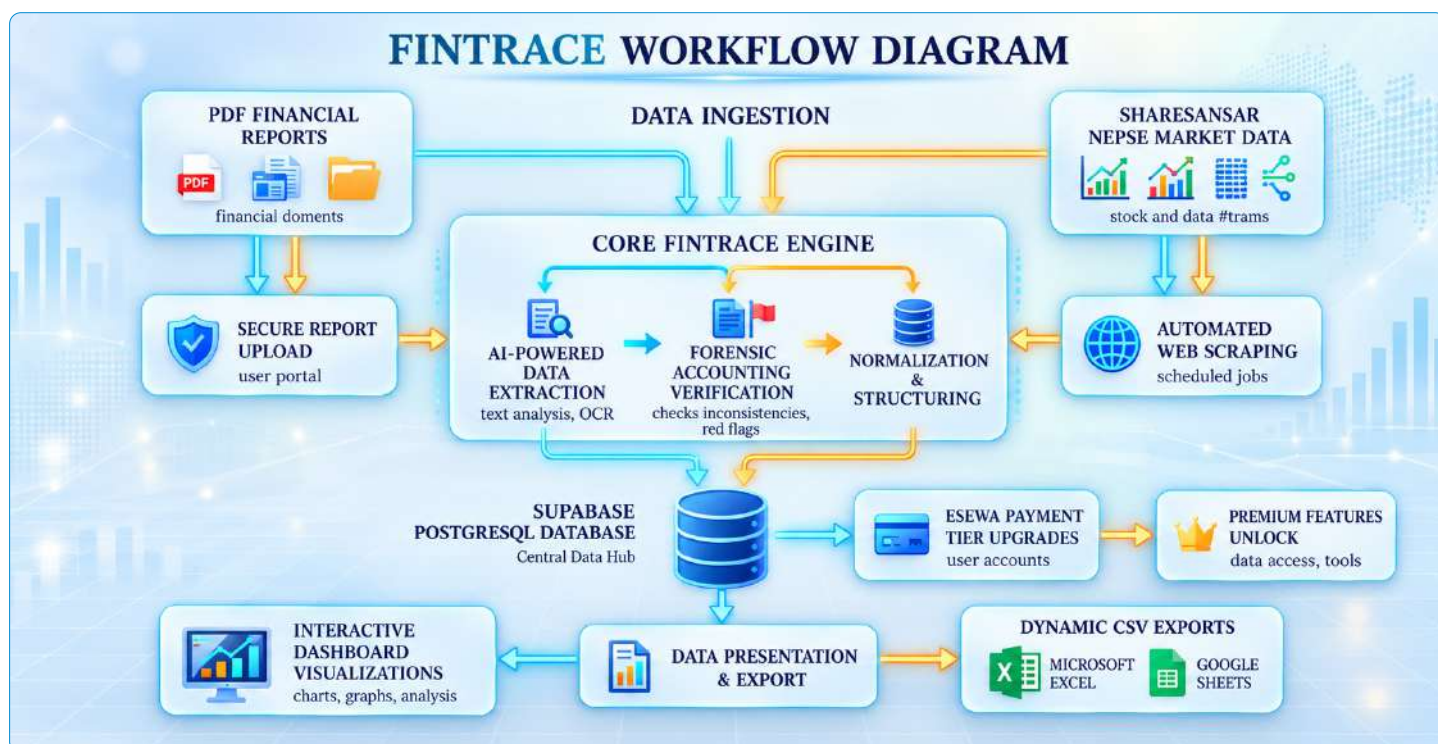
Proposed Solution: An automated pipeline extracting PDF financial tables, mathematically verifying accounting balance notes, tracking live prices, and exporting dynamic CSV models directly into Excel and Sheets.

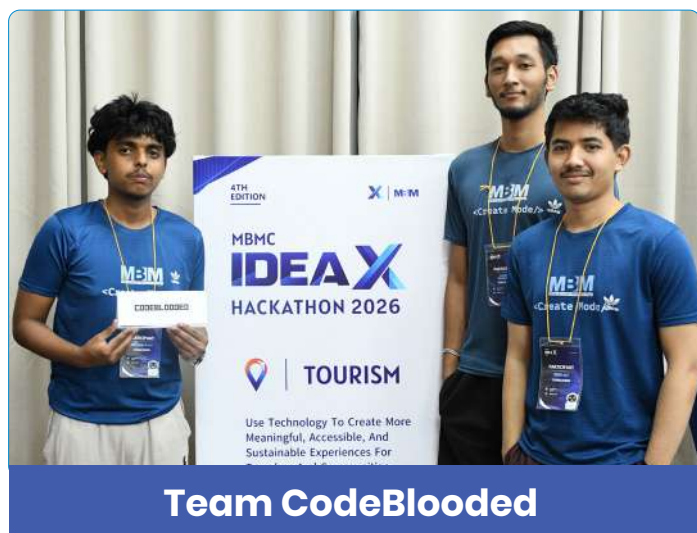
Key Features/Objectives

- o Automate 100% extraction and verification of NEPSE quarterly PDF statements.
- o Enable dynamic CSV export for automated DCF and financial valuation modeling in Excel/Sheets.

Technology Stack

- o **Programming Languages:** Python 3.12, TypeScript, JavaScript, SQL
- o **Frontend Framework & UI:** Next.js (App Router, Server Components & Proxy), React, Lucide Icons, Custom Responsive CSS
- o **Database & Security:** Supabase PostgreSQL, GoTrue Authentication, Row-Level Security (RLS) policies, Database Triggers
- o **Payment Integration:** eSewa ePay Payment Gateway (HMAC-SHA256 signature verification)
- o **Market Data & Sync:** ShareSansar & NEPSE Live Data Scraper, automated price reconciler
- o **Output & Modeling Formats:** Dynamic CSV Data Exports (compatible with Microsoft Excel, Google Sheets, PowerBI, and custom financial modeling workbooks), JSON REST APIs
- o **Version Control & DevOps:** Git, GitHub, PowerShell, Node.





Team CodeBlooded

Team Members

- 1 Prabesh Raut
- 2 Bibek Ale
- 3 Samrat Tamrakar

Track: Tourism

Project Title: HamroSampada

Introduction: HamroSampada is a digital travel and cultural discovery platform that helps domestic and international tourists explore places across Nepal through contextual information, interactive maps, AI guidance, local stories, nearby attractions, food, artisans, and experiences. It makes travel more meaningful while connecting visitors with local communities and businesses.

Problem Statement: Travel information in Nepal is scattered across multiple platforms, making it difficult for tourists to understand places, local culture, nearby experiences, and trusted visitor guidance.

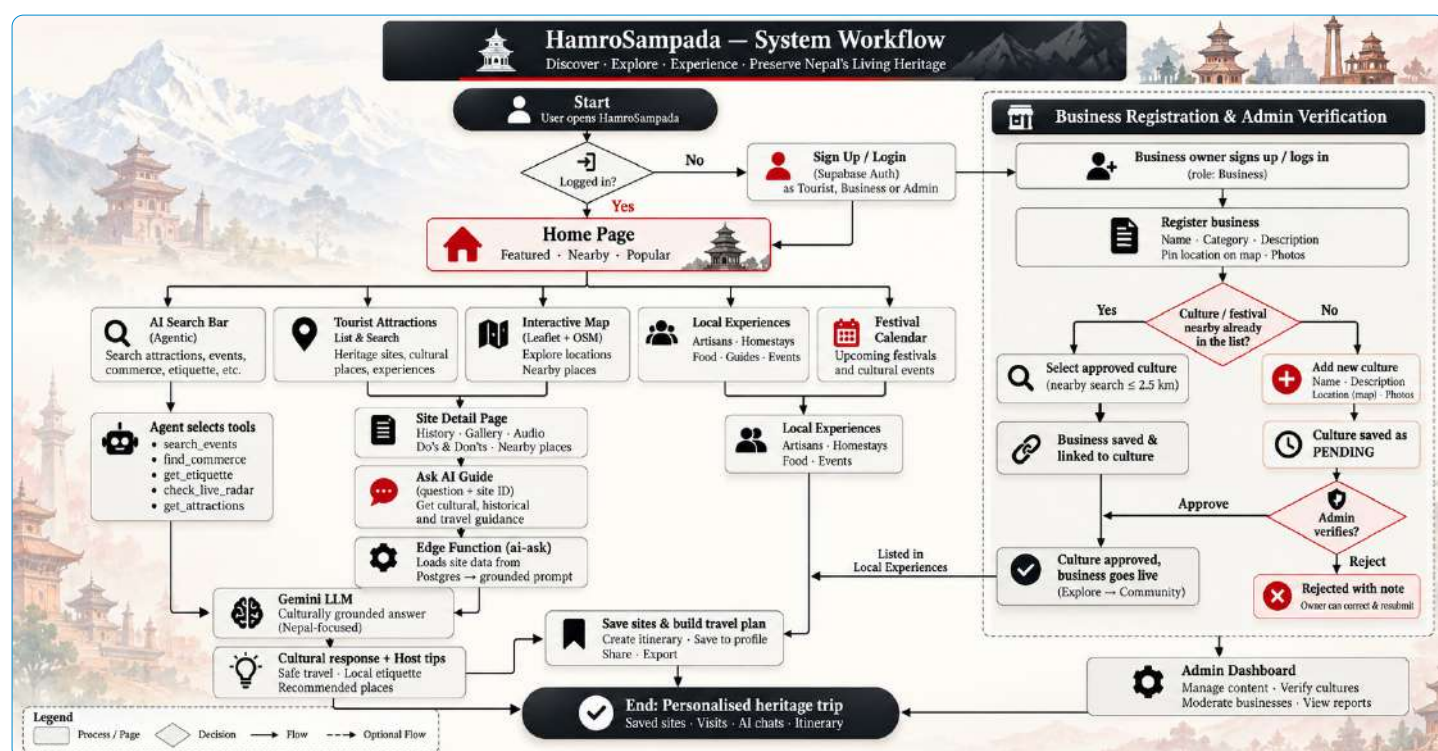
Proposed Solution: HamroSampada provides one platform for discovering places, understanding local context, using AI guidance, exploring nearby experiences, and saving locations for future travel.

Key Features/Objectives

- o Improve place discovery through maps, AI guidance, stories, and local context.
- o Connect tourists with nearby food, artisans, businesses, attractions, and experiences.

Technology Stack

- o **Frontend:** React18, TypeScript, Vite, React Router
- o **Maps:** Leaflet with OSM and react-leaflet
- o **Backend/Database:** Supabase — PostgreSQL, Auth, Storage, Low Level Security
- o **AI:** Google Gemini LLM
- o **AI Services:** Supabase Edge Function (Deno) 'ai-ask' for site-grounded answers; Python agentic concierge ('python_agent')
- o **Agent Tools:** Event search, local commerce, cultural etiquette, live crowd radar#
- o **Media:** Supabase Storage for images and audio
- o **Development Tools:** Git/GitHub, Supabase CLI, VS Code





Team TechBenders

Team Members

- 1 Aadarsh Bandhu Aryal
- 2 Ashim Parajuli
- 3 Bijay Bhetwal

Track: E - Governance

Project Title: VIDHAN: Know. Navigate. Act.

Introduction: Vidhan is an AI legal-guidance chatbot that helps ordinary Nepalis understand their country's laws in plain language. It answers questions over a curated legal document repository using retrieval-augmented generation (RAG), cites its sources, and escalates serious matters to verified local lawyers. Built for the public citizens, not legal professionals it

works in English, Nepali (Devanagari), and romanized Nepali.

Problem Statement: Most Nepalis can't access or understand their laws. Legal text is scattered, jargon-heavy, and people don't know when to see a lawyer — leaving citizens unable to protect their rights.

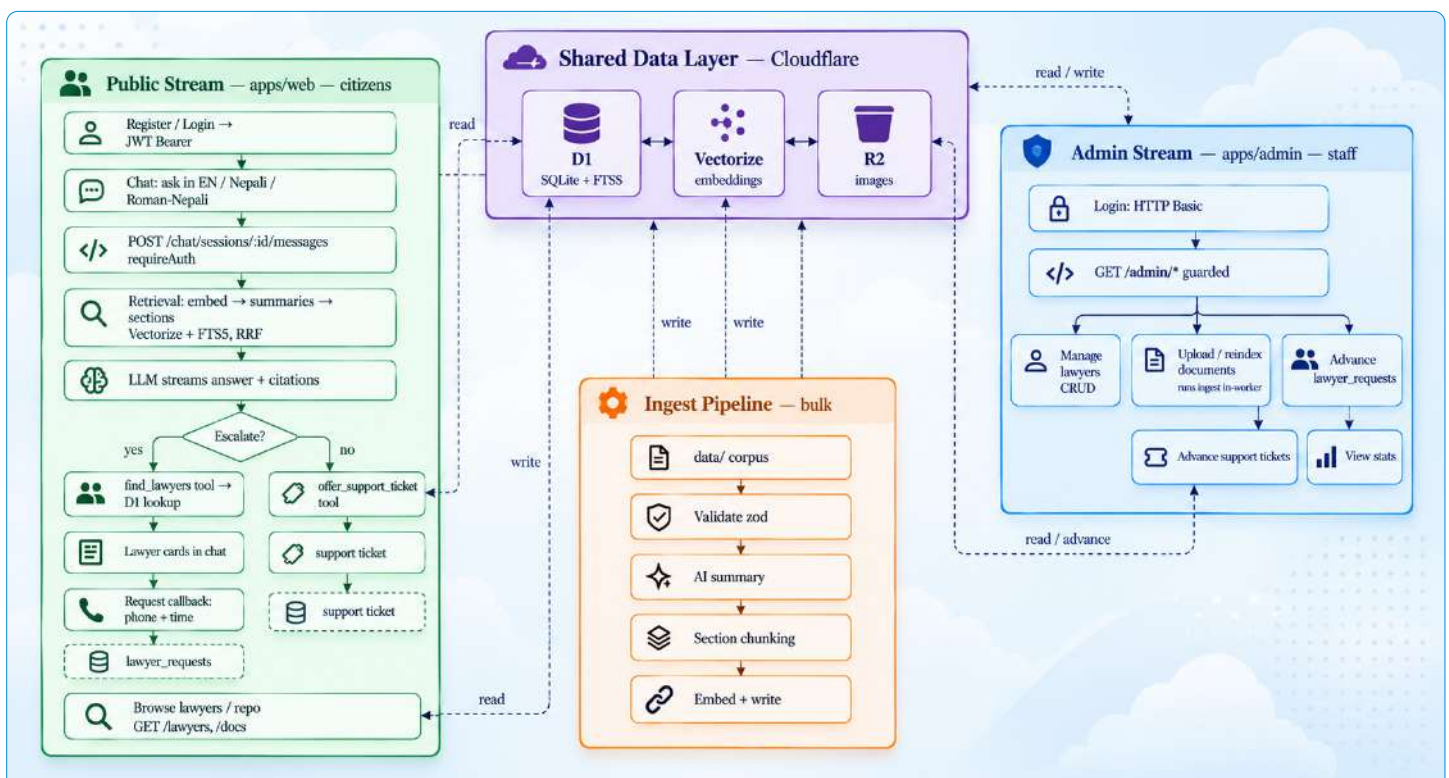
Proposed Solution: Vidhan is a multilingual RAG chatbot over Nepal's laws that answers in plain language with citations, and helps connect users with verified local lawyers all without exposing private contact data.

Key Features/Objectives

- o Multilingual RAG chat with source citations over Nepal's legal corpus.
- o Lawyer escalation: verified, practice-area-matched lawyers with on-platform callback requests.

Technology Stack

- o **Languages:** TypeScript
- o **Frameworks/UI:** Next.js (public chat app + admin app) Hono (API), Vercel AI SDK
- o **Database/Storage:** Cloudflare D1 (SQLite + FTS5 search), Vectorize (vector embeddings), R2 (image storage), Drizzle ORM
- o **Runtime/Infra:** Cloudflare Workers (serverless)
- o **AI / APIs:** OpenRouter (LLM chat + multilingual embeddings)
- o **Tooling:** pnpm workspaces, Nx monorepo, Wrangler





Team Panic Button

Team Members

- 1 Shailee Gosai
- 2 Aashbina Magar
- 3 Sajina Ghimire
- 4 Sunita Gole

Track: Climate Change

Project Title: Maan-Barsha

Introduction: Maan-Barsha is a disaster preparedness and mental health PWA for Nepal. It delivers hazard-specific safety guidance, real-time earthquake and forest fire data, and calming support during floods, landslides, and earthquakes. The app works offline, gives bilingual alerts in English and Nepali, connects users to emergency helplines, and provides 4-4-4 breathing exercises to reduce panic — turning a warning into calm, actionable support.

Problem Statement: Existing disaster alerts are generic they inform but don't calm, guide, or support mental health. People panic, delay action, and lack immediate psychological support.

Proposed Solution: We combine USGS + NASA FIRMS + community reports with 5-tier warnings, multi-channel alerts (app/IVR/SMS), phase-based guidance, Nepali voice, and 1166 mental health support — all in an offline PWA.

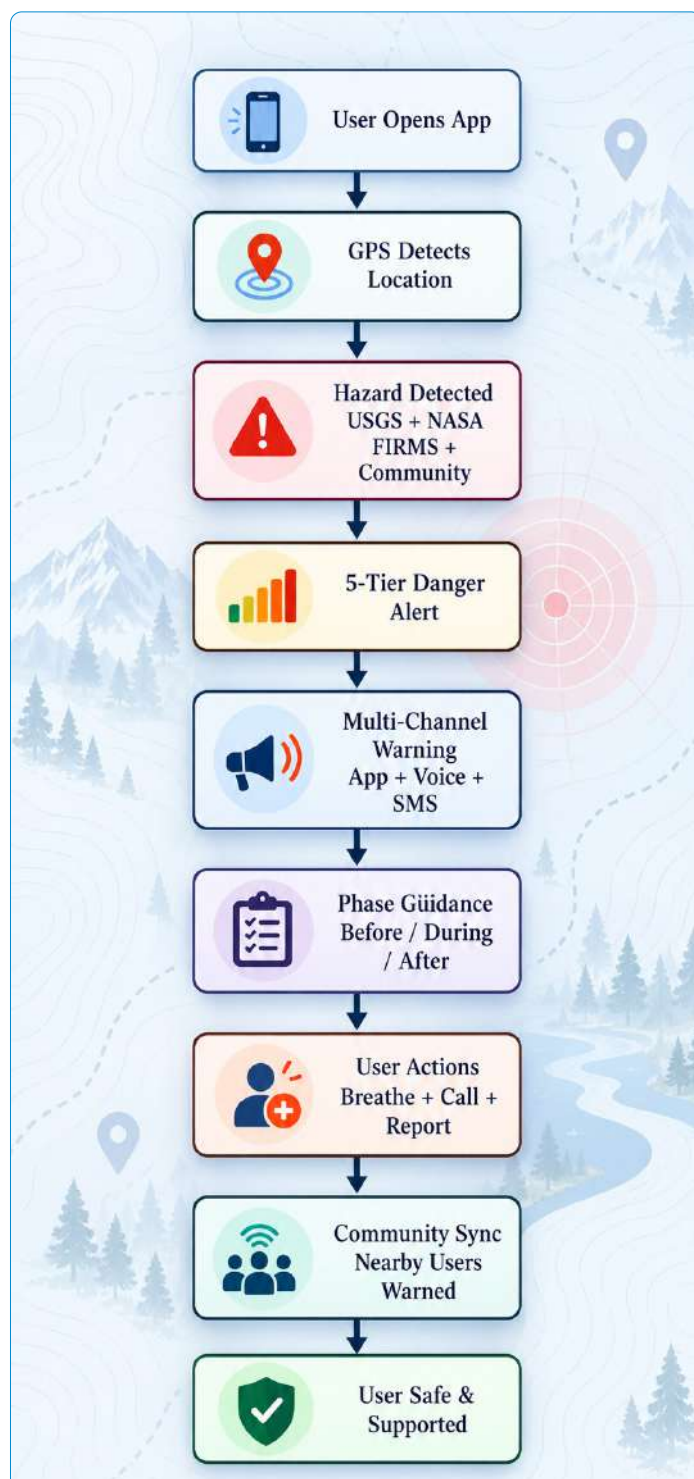
Key Features/ Objectives

- o **Detect & Warn:** Multi-source hazard alerts (USGS, NASA, community) with 5-tier danger levels + IVR/ SMS delivery.
- o **Guide & Support:** Phase guidance, breathing exercises, and 1166 helpline.

Technology Stack

- o **Frontend:** HTML5, Tailwind CSS (CDN), Vanilla JavaScript
- o **Backend/Database:** Firebase Firestore (community reports, real-time sync)

- o **APIs:** USGS Earthquake API (live seismic data for Nepal region), NASA FIRMS (satellite forest fire detection), Browser APIs (Geolocation, LocalStorage, Service Worker, Audio)
- o **Audio:** ElevenLabs (Nepali IVR voice synthesis)
- o **AI Assistance:** DeepSeek (code assistance & pair-programming)
- o **Design:** Figma (UI/UX wireframes)
- o **PWA:** manifest.json + service-worker.js (offline caching, installable)





Team DeepStack

Team Members

- 1 Saurav Pant
- 2 Swastika Dhakal
- 3 **Track:** Fintech

Project Title: KarobarAI

Introduction: KarobarAI is a voice-first AI copilot for Nepal's Kirana (small shop) owners. Shopkeepers log transactions in spoken Nepali, and the system auto-updates inventory, forecasts demand, scores credit risk, and delivers a spoken end-of-day business brief. It brings bookkeeping and financial insight to unbanked micro-retailers, with an offline-first design for patchy connectivity.

Problem Statement: Nepal's Kirana shops run on paper ledgers and memory. With no digital records, owners struggle to track stock, spot sales trends, and make daily business decisions.

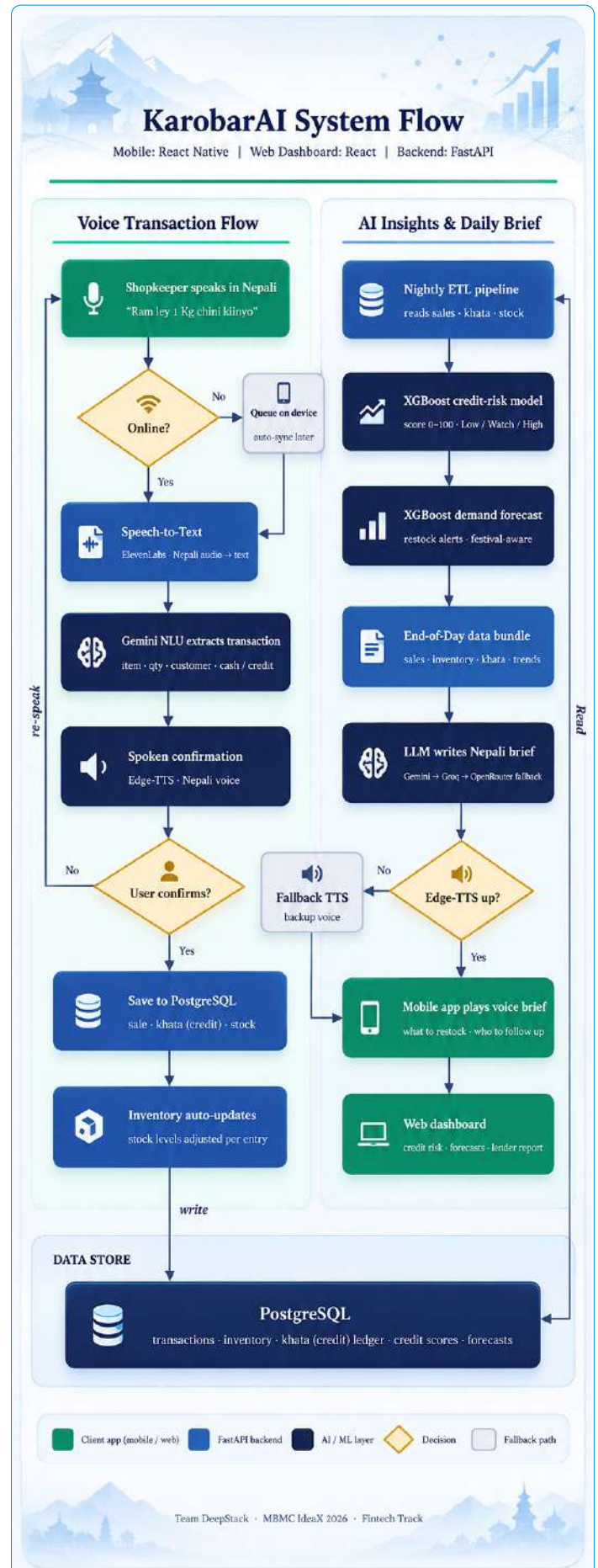
Proposed Solution: A Nepali voice-first app turns spoken transactions into structured records, then uses AI to update stock, forecast demand, score credit risk, and give a daily spoken brief summary.

Key Features/Objectives

- o Voice-first Nepali transaction entry with auto inventory updates
- o AI insights: Credit(Udharo) risk scoring, demand forecasting and a spoken End-of-Day Business Brief

Technology Stack

- o React (web dashboard), React Native(mobile), FastAPI, PostgreSQL, XGBoost (credit risk and demand forecasting), ElevenLabs (Nepali STT), Sarvam AI with Edge-TTS fallback (TTS), Gemini → Groq → OpenRouter fallback chain (NLU and brief generation), offline-first architecture.





Team Vagabond

Team Members

- 1 Rohit Poudel
- 2 Pujan Bhatt
- 3 Kiran Bhandari

Track: Smart Urban Transport

Project Title: Crash Capsule

Introduction: Crash Capsule turns ordinary Android phones into a tamper-evident witness network for road crashes in Nepal. When an impact is detected, the phone seals video, GPS, speed, and sensor data with a cryptographic signature, then alerts nearby app users over Bluetooth so they record too, even offline. It solves the problem of crash evidence being lost, altered, or disputed. It's for riders and drivers, police, and insurers. It preserves facts and does not assign fault.

Problem Statement: Crash evidence in Nepal is often lost, altered, or missing, with few witnesses and no signal. Police and insurers face disputes and delays, leaving victims without fair claims or justice.

Proposed Solution: Crash Capsule auto-records and cryptographically seals crash data on the phone, alerts nearby phones over Bluetooth to record too, even offline, and lets police verify any file as untampered.

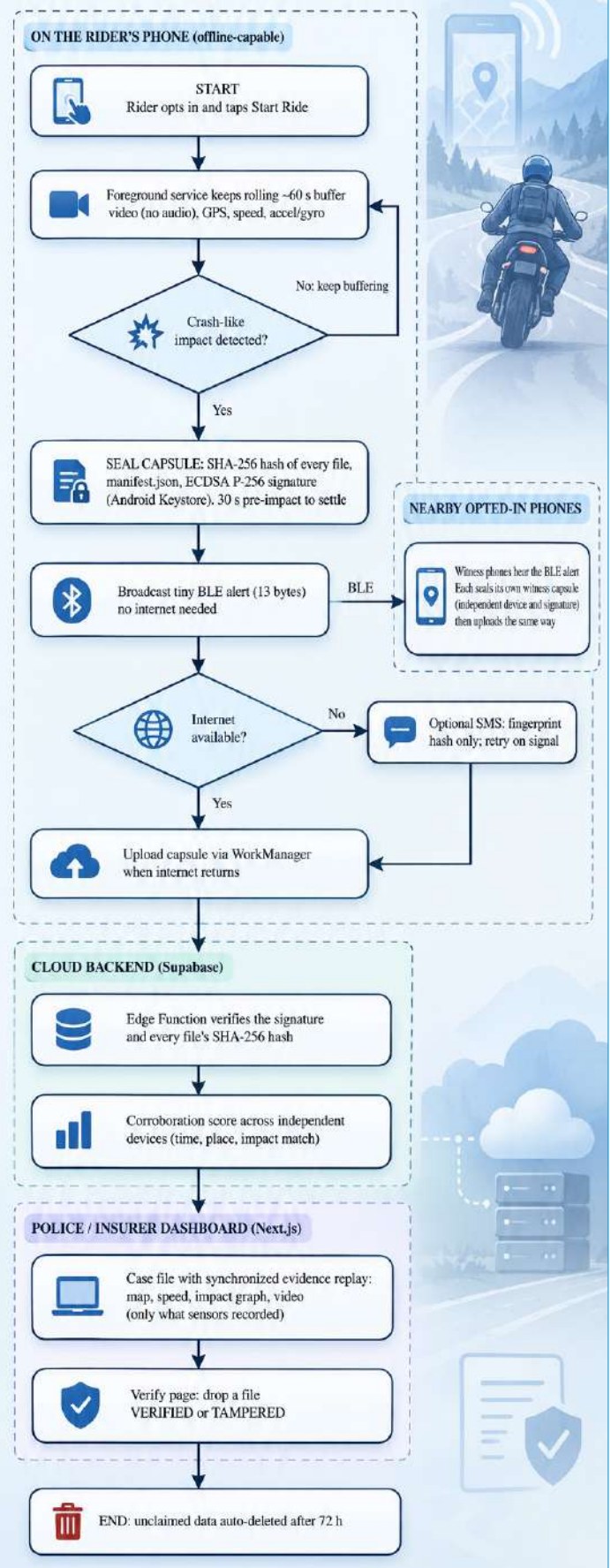
Key Features/Objectives

- o Tamper-proof crash evidence from phones: signed video, GPS, speed, impact.
- o Nearby phones witness offline via Bluetooth. Objectives: preserve evidence; corroborate facts.

Technology Stack

The system uses Kotlin for a native Android app, TypeScript for the dashboard and server, SQL/PostgreSQL, and Node.js tooling. It combines secure video capture, sensors, GPS, BLE, encrypted signing, resilient uploads, Supabase backend services, Next.js visualization, integrity verification, crash corroboration, automated testing, and standard Android development hardware and deployment tools.

Crash Capsule: Project Workflow





Team 4NF

Team Members

- 1 Aalok Bhandari
- 2 Bidhan Thapaliya
- 3 Firoj Poudel

Track: Smart Urban Transport

Project Title: Bhada (भाडा) — fair bus fares by the kilometre

Introduction: Bhada lets Kathmandu bus riders pay from their phone, priced by the exact distance they ride. Show a code at the door when you board and again when you leave. the fare is worked out from the kilometres the bus actually travelled. It works with no internet, and the money syncs later when a signal returns. Bhada is software for bus companies: it never holds anyone's money and takes no cut off any fare.

Problem Statement: Kathmandu buses lack fixed stops and transparent fares. Conductors guess, riders argue, receipts are rare, and owners lose revenue. Digital wallets fail offline in valley traffic.

Proposed Solution: Bhada calculates bus fares by GPS offline, using QR tap-in/out, signed receipts, and later settlement. It ensures fair fares, transparent earnings, Rs 50 per verified trip, and seat-limit enforcement.

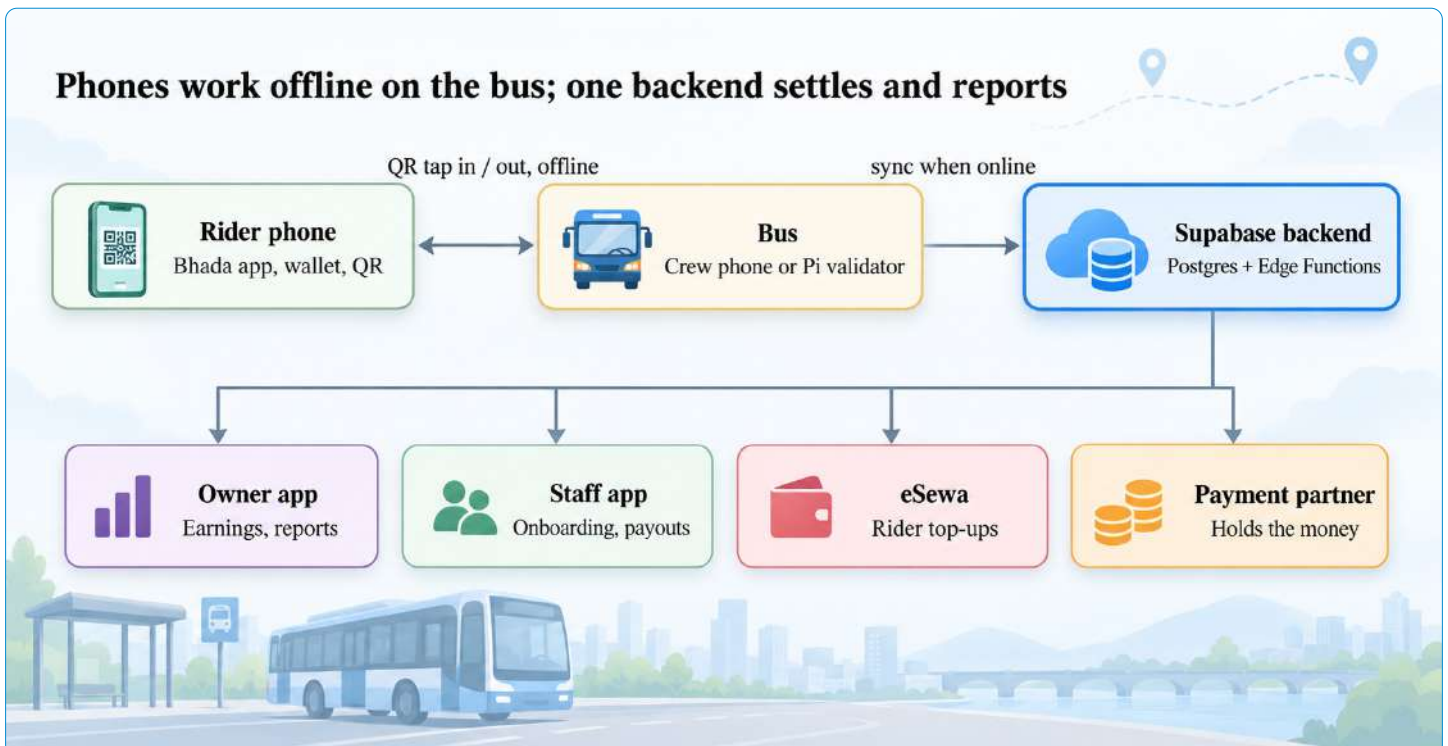
Key Features/Objectives

- o Offline GPS fares, QR payments, signed receipts, seat limits Rs 50 per verified trip, and secure settlement,
- o Ensure fair fares, transparent revenue, safer rides, and legal compliance

Technology Stack

- o **Frontend:** React 19, Vite, Progressive Web Apps (offline, installable)
- o **On-device storage:** IndexedDB (idb)
- o **Security:** ed25519 digital signatures (tweetnacl)
- o **QR codes:** qrcode, jsQR
- o **Location/distance meter:** Browser Geolocation API, Screen Wake Lock API
- o **Maps:** Leaflet
- o **Charts:** Recharts
- o **Backend:** Supabase (PostgreSQL, Auth, Edge Functions)
- o **Payments:** eSewa
- o **Hardware:** Raspberry Pi, QR scanner, PN532 NFC reader, RS-485
- o **Testing:** PGLite, Node.js test runner
- o **Hosting:** Vercel
- o **Language:** JavaScript, SQL

Phones work offline on the bus; one backend settles and reports





Team Koseli

Team Members

- 1 Rajat Bhatta
- 2 Rijan Maharjan
- 3 Kapil Gaire

Track: Fintech

Project Title: ClaimSetu

Introduction: ClaimSetu is a claims-review automation tool for Nepal's private health insurers. It reads claim documents (bills, prescriptions, discharge summaries, in Nepali and English), builds one structured claim, checks it against the insurer's policy rules, and shows the policy clause behind each flag. Claims officers get a decision-ready report of what passed, what failed and what needs a human look, and make the final call. It removes repetitive reading and cross-checking work.

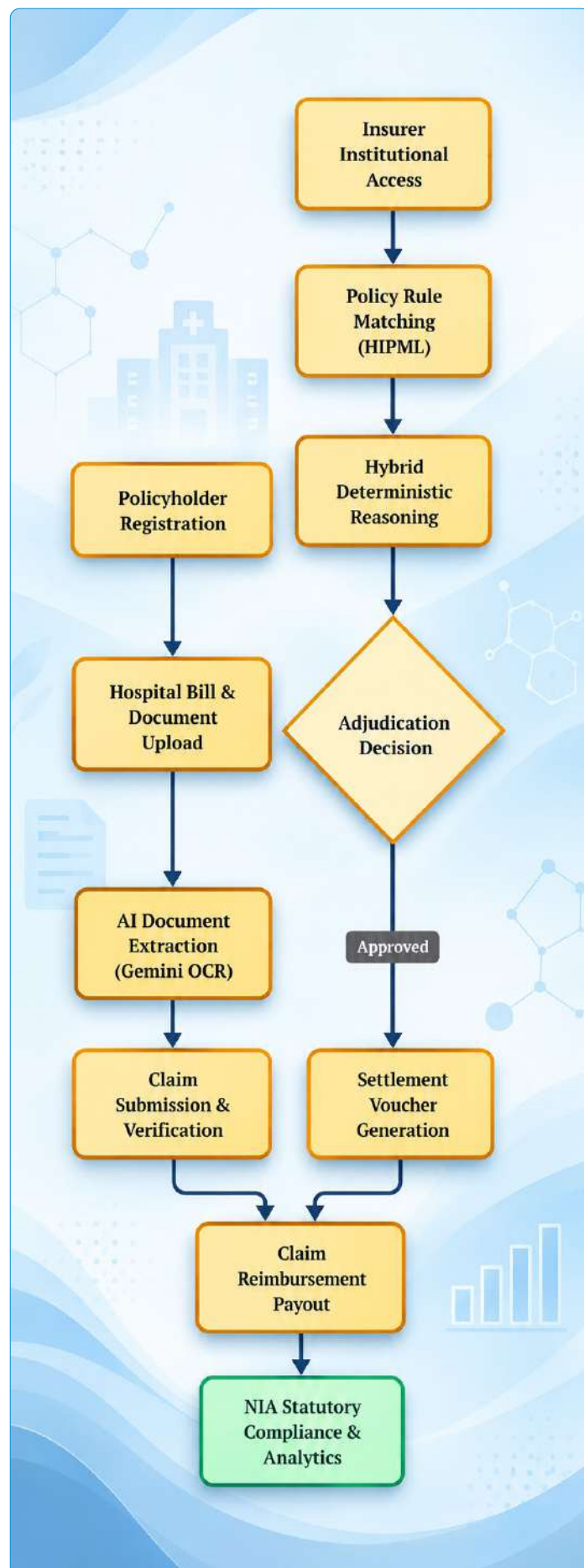
Problem Statement: Claim reviewers manually read documents and cross-check policy limits. Nepal's public Health Insurance Board gets 25,000-30,000 claims a day but can manually review only 5,500-6,500 (ADB study).

Proposed Solution: ClaimSetu reads claim documents, runs the policy's rules automatically, and finds the policy clause for unclear cases, giving reviewers a ready report. A human makes the final decision.

Key Features/Objectives

- o Cut manual claim review time (target 20-30%, to be validated in a pilot) by auto-reading documents and checking policy rules.
- o Give reviewers clause-cited, auditable reports; humans decide.

Technology Stack: Nextjs, PostgreSQL, Docker, Express





Team Pomelo

Team Members

- 1 Subham Kumar Raya,
- 2 Sunil Bhattarai,
- 3 Sujit Pandey,
- 4 Kushal Dhakal

Track: Tourism

Project Title: Sanskriti Snap

Introduction: Sanskriti Snap is a gamified cultural discovery app for tourists exploring Nepal. It helps users discover lesser-known heritage sites, artifacts, and cultural stories often overlooked around famous landmarks. Through photo-based challenges, Computer Vision validation, learning content, and rewards, the app turns cultural exploration into an engaging and interactive experience.

Problem Statement: Tourists often visit Nepal's famous landmarks while overlooking lesser-known heritage places, artifacts, and stories nearby, limiting cultural discovery and the visibility of local heritage.

Proposed Solution: Sanskriti Snap gamifies cultural exploration through location-based challenges, photo capture, CV validation, educational stories, and rewards that encourage tourists to discover hidden heritage.

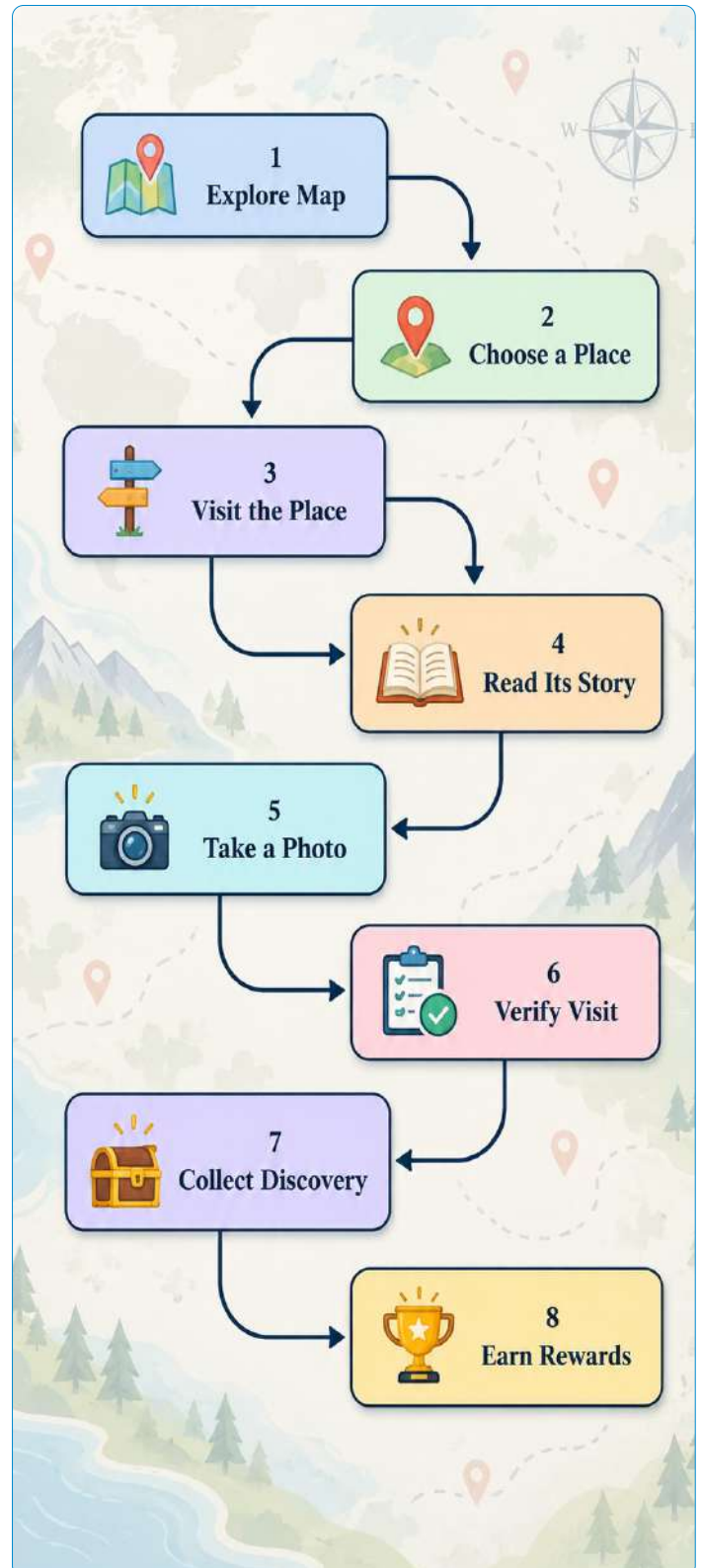
Key Features / Objectives

- o Encourage tourists to discover and engage with lesser-known cultural heritage through gamified challenges.
- o Use computer vision photo validation and rewards to make app interactive and memorable.

Technology Stack

- o **Frontend:** React Native, Expo
- o **Backend:** Next.js, REST API

- o **Database:** MongoDB
- o **Authentication:** Clerk
- o **Computer Vision:** FastAPI, PyTorch, CLIP/OpenCLIP
- o **Maps & Location:** MapLibre Native, OpenFreeMap, OSRM
- o **Media:** Cloudinary





Team Phantom

Team Members

- 1 Roshan Bishwakarma
- 2 Sushant Dahal
- 3 Anil Rana

Track: Smart Urban Transport

Project Title: GridSync

Introduction: GridSync is a smart traffic management system for Nepal designed to optimize flow, reduce delays, and improve QoL. Using real-time data and a fallback matrix mechanism, it adapts signal timing during power outages and transfers historical patterns into lightweight, time-driven schedules. This frees up processing resources for traffic violation monitoring, emergency vehicle routing, accident detection, and citizen map integration.

Problem Statement: Fixed-timer traffic signals in Nepal cause severe congestion and delay emergency vehicles, while continuous real-time data processing demands high computing resources vulnerable to power outages.

Proposed Solution: GridSync uses real-time traffic data and a historical fallback matrix to maintain adaptive signal schedules during outages, freeing system resources for emergency routing and monitoring.

Key Features / Objectives

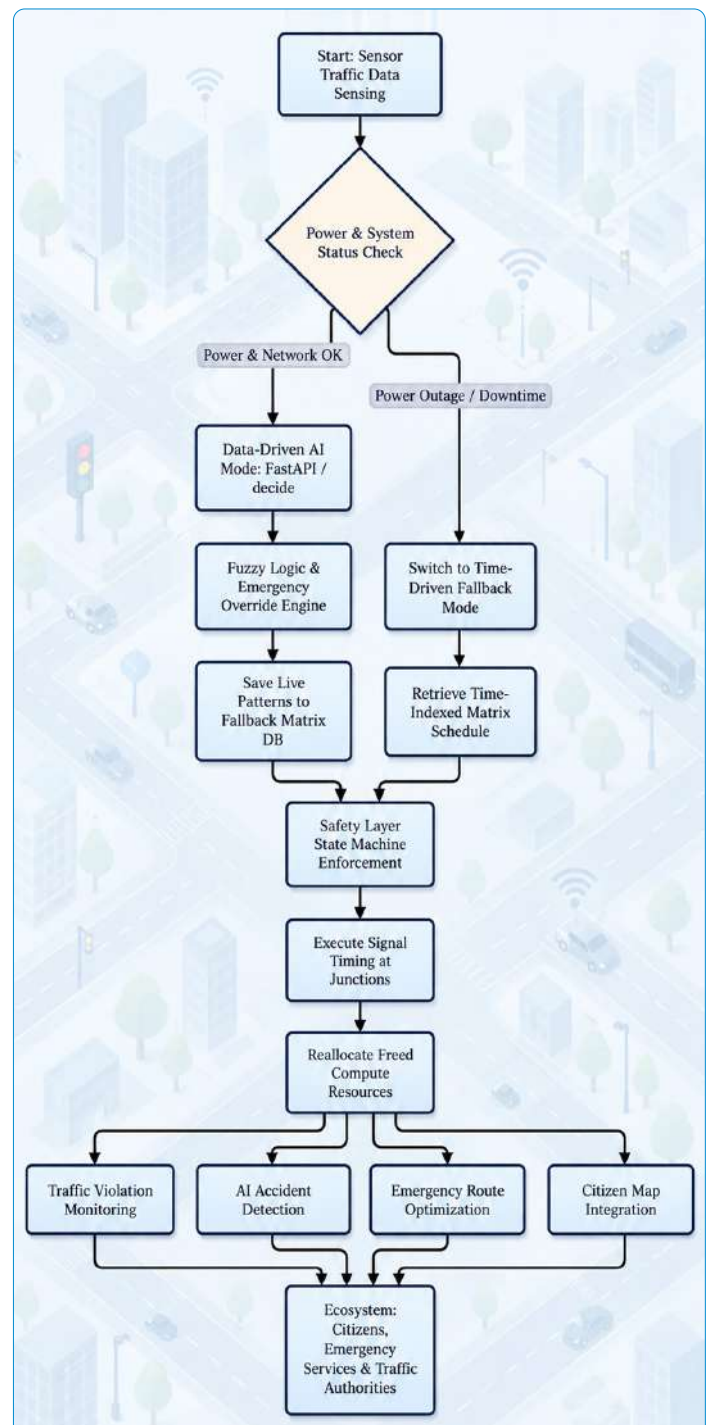
- o Sustain optimal signal flow during power outages via fallback matrix schedules.
- o Reallocate saved compute power to emergency vehicle routing and traffic violation tracking.

Technology Stack

- o **Programming Languages:** Python 3.10 / 3.11
- o **Simulation & Traffic Modeling:** SUMO 1.20+ (netconvert, netgenerate, netedit, sumo-gui), TraCI protocol, and sumolib
- o **AI, Machine Learning & Spatial Processing:** scikit-

fuzzy (fuzzy logic engine), PyTorch (torch), Stable-Baselines3, Gymnasium, sumo-rl, Shapely (polygon detection zones), NumPy, Pandas, and Matplotlib

- o **Backend & API Architecture:** FastAPI, Uvicorn ASGI server, HTTPX async client, Pydantic, and HTTP REST API (/decide & /health endpoints)
- o **Visualization & Frontend UI:** Pygame graphics engine
- o **Data Formats & Storage:** JSON configuration files (junctions.json, zones.json) and CSV benchmark data logging
- o **Development & Version Control:** Git and GitHub





Team 14 Peaks

Team Members

- 1 Aaditya Sapkota
- 2 Shubham Kayastha
- 3 Samriddhi Pyakurel

Track: Tourism

Project Title: Chautari: Nepal Travel Operating System

Introduction: Chautari is an offline-capable travel operating system built for Nepal. It helps independent travelers, trekking groups, and cultural explorers turn ideas into realistic, safe journey. The platform solves the frustration of fragmented planning, remote connectivity loss, and sudden trail disruptions. By combining conversational AI with strict deterministic safety checks, Chautari keeps itineraries coherent, promotes responsible local heritage, and keeps personal travel data private.

Problem Statement: Travelers in Nepal face fragmented information, unreliable offline navigation, sudden mountain disruptions, and unsafe itineraries generated by generic AI tools that ignore altitude and road limits.

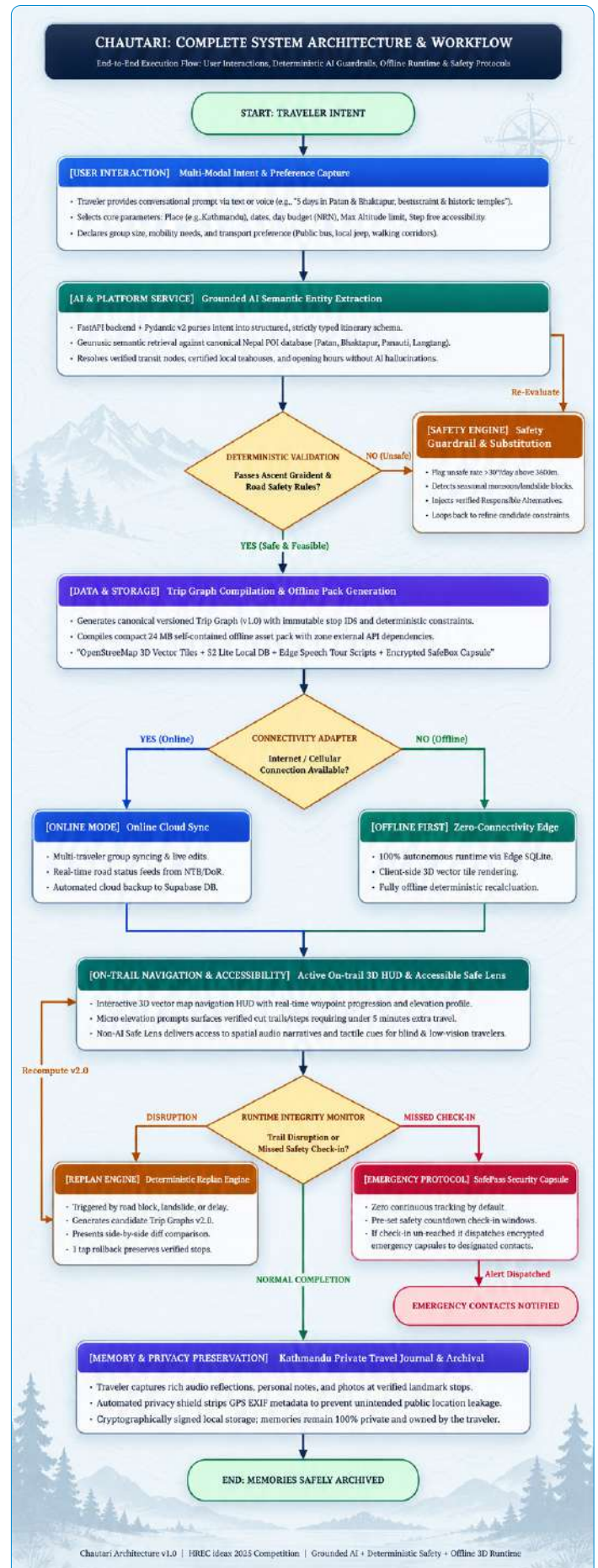
Proposed Solution: Chautari combines grounded AI planning with deterministic validation, offline vector maps, automated disruption replanning, and private safety check-ins that work even without continuous internet.

Key Features/Objectives

- o Provide deterministic offline trip planning with verified elevation and trail safety.
- o Deliver accessible heritage discovery with private safety check-ins and traveler-owned memories.

Technology Stack

TypeScript, Python, SQL, React/Next.js, React Native, FastAPI, PostgreSQL/PostGIS, MapLibre, AI/Speech, Docker, GitHub Actions, Vitest, and Pytest.





Team PropNexa

Team Members

- 1 Salina Lage
- 2 Raj Bhurtel
- 3 Garima Chaulagain
- 4 Binish Horaju

Track: E - Governance

Project Title: SPRS-Smart property rental system

Introduction: SPRS is a web-based platform that simplifies property rental by connecting tenants and property owners through centralized, location-based listings. It addresses scattered, outdated, and difficult-to-verify rental information. Tenants can search, filter, compare, and verify properties, while owners can list and manage properties and reach genuine tenants. Administrators manage users, listings, and verification, making the rental process more organized, transparent, and efficient.

Problem Statement: Rental information is scattered, outdated, and hard to verify, making it difficult for tenants to find suitable properties and owners to reach genuine tenants efficiently.

Proposed Solution

- o Simplify property search with verified, location-based listings.
- o Connect property owners with genuine tenants through a trusted platform.

Key Features/Objectives

- o Simplify property search with verified, location-based listings.
- o Connect property owners with genuine tenants through a trusted platform.

Technology Stack

Python, Django, PostgreSQL, HTML, CSS, JavaScript, Leaflet.js, Bootstrap, Git/GitHub, OpenStreetMap.





Team Matrix

Team Members

- 1 Shashi Baranwal
- 2 Sarmesh Kalwar

Track: E - Governance

Project Title: Nagarsewa

Introduction: Nagarsewa is a civic issue reporting and management platform that connects citizens with local governments. It enables citizens to report problems such as damaged roads, waste mismanagement, water supply issues, and broken streetlights through a digital platform. Reports are routed to the relevant wards and departments, allowing authorities to track, manage, and resolve issues while improving transparency, accountability, and citizen participation.

Problem Statement: Existing civic platforms in Nepal face inefficient tracking, fragmented communication, poor coordination, and limited transparency, leading to delayed resolutions and weak accountability.

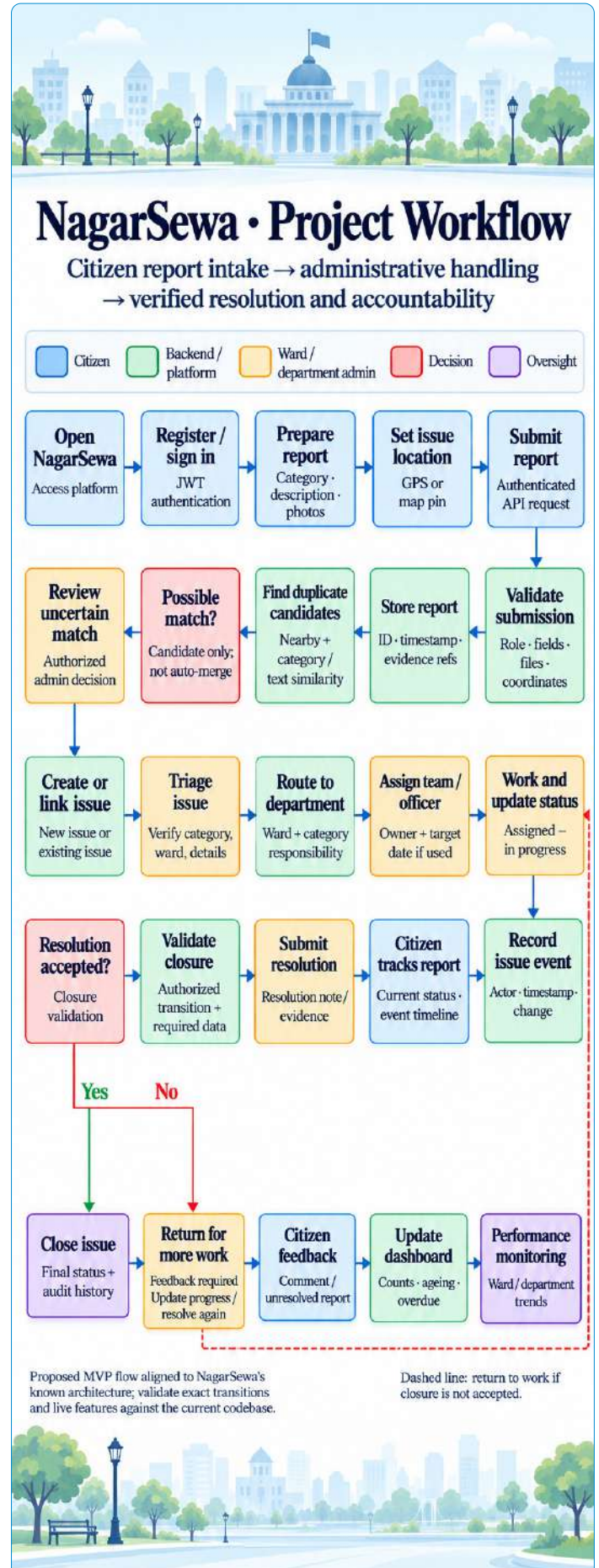
Proposed Solution: Nagarsewa simplifies issue reporting, automates departmental routing, and enables real-time tracking, improving coordination, transparency, and accountability between citizens and local governments.

Key Features/Objectives

- o Location + category clustering into a single issue
- o Priority score from report count, age, and category
- o Deadline timer with automatic escalation upward

Technology Stack

- o **Mobile Application:** Flutter
- o **Backend:** Node.js, Express.js, REST APIs, JWT Authentication
- o **Database:** MongoDB Atlas, Mongoose
- o **Storage:** Cloudinary, Multer
- o **Tools & Deployment:** Git, GitHub, AWS lightsail
- o **Integrations:** Geolocation, map services, image uploads



राष्ट्रिय ह्याकाथन 'एमबीएमसी आइडियाएक्स २०२६' सुरु

रेडियो नेपाल, असोज १६, २०८३

काठमाडौं। मदन भण्डारी मेमोरियल कलेज (एमबीएमसी) नयाँ बानेश्वरमा राष्ट्रिय ह्याकाथन 'एमबीएमसी आइडियाएक्स २०२६' आजदेखि सुरु भएको छ।

'इनोभेसन फर इम्प्याक्ट' नाराका साथ आयोजना गरिएको ह्याकाथनको चौथो संस्करणमा देशभरका २८ शैक्षिक संस्थाका ६७ प्रतियोगी सहभागी छन्। प्रतियोगिताका लागि देशभरबाट १६० टोलीले आवेदन दिएका थिए। अनलाइन मूल्याङ्कनपछि २० टोली अन्तिम चरणका लागि छनोट भएका हुन्।

तीन दिनसम्म सञ्चालन हुने प्रतियोगितामा सहभागी टोलीले नेपालका विभिन्न सामाजिक तथा सार्वजनिक समस्याको सूचना प्रविधिमा आधारित समाधान विकास गर्ने आयोजकले जनाएको छ।

यस वर्षको ह्याकाथन जलवायु परिवर्तन, उत्थानशीलता तथा दिगो विकास, पर्यटन, ई-गभर्नेन्स तथा स्मार्ट सार्वजनिक सेवा, स्मार्ट सहरी यातायात तथा सडक सुरक्षा र फिनटेक तथा डिजिटल वित्तीय नवप्रवर्तन गरी पाँच विषयगत क्षेत्रमा केन्द्रित छ।

ह्याकाथनको उद्घाटन गर्दै कलेज व्यवस्थापन समितिका अध्यक्ष एवम् पूर्वमन्त्री महेन्द्रबहादुर पाण्डेले अध्ययनसँगै समाजका समस्याको समाधान खोज्ने उद्देश्यले सूचना प्रविधिका विद्यार्थीबीच यस्तो प्रतियोगिता आयोजना गरिएको बताउनुभयो। "सहभागी विद्यार्थी टोलीले नेपाल केन्द्रित समस्याको सूचना प्रविधिमा आधारित समाधानको खोजी गर्नेछन्", उहाँले भन्नुभयो।

क्याम्पस प्रमुख डा. बाबुराम अधिकारीले कक्षाकोठामा सिकेको ज्ञानलाई समाजका वास्तविक समस्यासँग जोड्ने उद्देश्यले ह्याकाथन आयोजना गरिएको बताउनुभयो।

उहाँका अनुसार आइडियाक्स आदिवासी भाषा तथा सांस्कृतिक सम्पदाको संरक्षणमा केन्द्रित कार्यक्रमका रूपमा सुरु भएर अहिले राष्ट्रियस्तरको ह्याकाथनका रूपमा विस्तार भएको हो।

कार्यक्रम संयोजक तथा बिसीए संयोजक नवराज जोशीले ४८ घण्टाको अवधिमा सहभागी टोलीले समस्या पहिचान, समाधानको नमुना तयार र निर्णायकसमक्ष प्रस्तुति गर्ने बताउनुभयो। उहाँले सिमित समयमा टोलीमा काम गर्ने, निर्णय लिने र आफ्ना विचार प्रस्तुत गर्ने र सिप विकासमा ह्याकाथन उपयोगी हुने उल्लेख गर्नुभयो।

प्रतियोगितामा उत्कृष्ट हुने टोलीले समग्रमा १ लाख ११ हजार १११ नगद पुरस्कार प्राप्त गर्नेछन् भने पहिलो, दोस्रो र तेस्रो हुने टोलीलाई पुरस्कृत गरिने आयोजकले जनाएको छ।



मदन भण्डारी कलेजमा राष्ट्रिय ह्याकाथन 'आइडियाएक्स' चल्दै

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मदन भण्डारी मेमोरियल कलेज (एमबीएमसी) ले चौथो संस्करणको राष्ट्रिय ह्याकाथन 'एमबीएमसी आइडियाएक्स २०२६' प्रतियोगिता चलि रहेको छ।

'इनोभेसन फर इम्प्याक्ट' भन्ने मूल नाराका साथ कलेज परिसरमा असोज १६ देखि सुरु भएको ४८ घण्टे प्रतियोगितामा विद्यार्थी टोलीले नेपाल-विशेष समस्याको प्रविधिमा आधारित समाधान खोज्नेछन्।

आयोजक संस्था मदन भण्डारी कलेजका प्रमुख डा. बाबुराम अधिकारीका अनुसार ह्याकाथनका लागि १ सय ६० टिम दर्ता भएका थिए। भदौ २१ देखि २८ गतेसम्म भएको अनलाइन मूल्यांकनपछि २० टोली अन्तिम चरणका लागि छनोट भएका छन्। फाइनलमा २८ शैक्षिक संस्थाका ६७ प्रतिभागी सहभागी हुनेछन्।

यस वर्षको प्रतियोगिता ५ विषयगत क्षेत्रमा केन्द्रित छ- १. जलवायु परिवर्तन, उत्थानशीलता र दिगोपना, २. पर्यटन, ३. ई-गभर्नेन्स र स्मार्ट सार्वजनिक सेवा, ४. स्मार्ट सहरी यातायात र सडक सुरक्षा र ५. फिनटेक र डिजिटल वित्तीय नवप्रवर्तन।

विषय जोडिनुभन्दा सचेतना, यात्रा सूचना, सार्वजनिक सेवामा सहज पहुँच, सडक सुरक्षा तथा समावेशी डिजिटल वित्तजस्ता क्षेत्रमा काम गर्दै टोलीहरूले ४८ घण्टापछि कार्यशील प्रोटोटाइप प्रस्तुत गर्ने छन्।

उनले भने, 'आइडियाएक्स विद्यार्थीले कक्षाकोठामा सिकेको ज्ञानलाई समाजका वास्तविक समस्यासँग जोड्न सक्नु भन्ने उद्देश्यले सुरु गरिएको मञ्च हो। आदिवासी भाषा संरक्षणको विषयबाट सुरु भएको यो कार्यक्रम, राष्ट्रिय मञ्चका रूपमा विकास





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आइडियाएक्स सुरुमा आदिवासी भाषा तथा सांस्कृतिक सम्पदाको संरक्षणमा केन्द्रित ह्याकाथनका रूपमा सुरु भएको थियो। त्यसपछिका संस्करणमा वातावरण, स्वास्थ्य, कृषि, पर्यटन, साइबर सुरक्षा र वित्तीय प्रविधिजस्ता क्षेत्र समावेश भएका छन्। टोलीले पहिले अनलाइन पिचिङ गर्ने र छनोट भएका टोलीले प्रत्यक्ष उपस्थितिमा परियोजना विकास गर्ने प्रक्रिया पनि अपनाइएको छ।

कार्यक्रम संयोजक नवराज जोशीले १ सय ६० दर्ताबाट २० टोली छनोट हुनुले यस घटकको प्रतिस्पर्धाको स्तर देखाउने बताए।

छ। संयोजक जोशीका अनुसार ह्याकाथनका क्रममा १० जना मेन्टरले टोलीलाई मार्गदर्शन गर्ने छन् भने ५ जना निर्णायकले अन्तिम परियोजनाको मूल्यांकन गर्ने छन्। प्रविधि, बैकिङ, लेखा-परिक्षण तथा वित्त, शिक्षण र सार्वजनिक क्षेत्रका अनुभवी व्यक्तिहरू यस प्रक्रियामा संलग्न हुने आयोजकको भनाइ छ।

कार्यक्रमलाई अलिस्टामा, आईएमई ग्रुप, आईएमई रीमिट, नेपाल टेलिकम, लिपप्रग कनेक्ट, लिपप्रग टेक्नोलोजी, ग्लोबल प्रिन्टिङ, डेबगसप्ट, आर् श्रत ट्राभल्स टच प्रालि, रोयल सुज, टेकाकिस्स, वेनेभिस, आइडिया स्टुडियो, निम्बु फिज, कैलाश कलाउड, डीलाईटिका नेपाल प्रालि, भेनस अस्पताल, अलिस स्टेसनरी र एसएम ग्रुपले साझेदारी गरेका छन्।

यस एमबीएमसी आइडियाएक्स कार्यक्रम सम्बन्धी समाचार समेटिदिने सबै मिडियाहरूप्रति मदन भण्डारी मेमोरियल कलेज हार्दिक कृतज्ञता ज्ञापन गर्दछ।

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