



Developer Network Space

Cblock No.1FeetRd, Vadapalani,
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INSTITUTE OF SCIENCE & TECHNOLOGY
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VADAPALANI

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
FACULTY OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

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Problem Statements

1. Urban Policy Decision Engine for Pollution Mitigation

Build a decision-support system that ingests real-time IoT data from air-quality sensors, traffic sensors, and weather stations to recommend actionable city-level pollution mitigation policies and simulate their short-term impact.

2. Municipal Waste Strategy Optimization System

Design an analytics platform that evaluates waste generation trends and recommends optimal pickup policies, incentive mechanisms, and processing capacity planning under budget and operational constraints.

3. City-Level Carbon Policy Trade-off Simulator

Create a system that compares multiple carbon reduction strategies based on cost, feasibility, and long-term emissions impact to support data-driven policymaking.

4. Public Health Early Signal & Planning Platform

Build a system that detects abnormal public health trends using anonymized indicators (clinic visits, pharmacy demand, symptom clusters) and supports forecasting, alerts, and intervention planning.

5. Healthcare Access Inequality Analysis & Planning System

A decision platform that identifies regional healthcare access gaps, predicts future service overload, and recommends facility placement or mobile health unit deployment.

6. Farm-to-Market Intelligence & Price Forecasting Platform

A decision system that forecasts crop prices, identifies optimal selling windows, and recommends markets based on demand signals, transport cost, and spoilage risk.



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7. Perishable Goods Supply Chain Optimization Engine

Build an IoT-enabled optimization system that uses temperature, humidity, and GPS sensor data from storage units and transport vehicles to predict spoilage risk and dynamically recommend optimal routing, storage, and dispatch strategies.

8. AI Fairness, Bias & Drift Auditor

Design a tool that audits machine-learning models used in governance or finance for bias, drift, and explainability gaps, producing compliance-ready reports.

9. Citizen Grievance & Welfare Intelligence System

Use NLP to cluster grievances, link them with applicable welfare schemes, and recommend resolution priorities based on urgency, impact, and population affected.

10. Adaptive Learning Gap Diagnosis Platform

Build a system that identifies conceptual learning gaps and recommends personalized remediation paths, with scope for predictive risk scoring or teacher dashboards.

11. Intelligent Test Automation Platform (AI-Assisted)

Build a system that auto-generates, maintains, and prioritizes test cases using API/UI flows, code changes, execution logs, and failure patterns, with scope for self-healing UI tests, ML-based failure clustering, and CI/CD integration.

12. Student Career Risk & Opportunity Forecasting System

A predictive platform that identifies students at risk of skill mismatch and recommends early interventions, certifications, or learning paths based on market trends.

13. Classified Document Integrity & Clearance Verification Platform

Design a system where sensitive documents remain off-chain, while hashes, access approvals, and clearance verification are stored on-chain to ensure immutability, auditability, and privacy.

14. Secure Defense Procurement & Vendor Transparency System

Build a blockchain-backed procurement platform that immutably records bid stages and approvals, preventing tampering while enabling secure post-audit transparency.





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15)Open innovation

Build an open-ended solution with no fixed constraints that addresses a real-world problem through creativity and technology. The idea can be from any domain, focusing on innovation, impact, and practical feasibility.



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