

Problem Statement #10: Develop an AI-powered platform that enhances personalized learning experiences for K-12 students.

Key Outcomes Expected

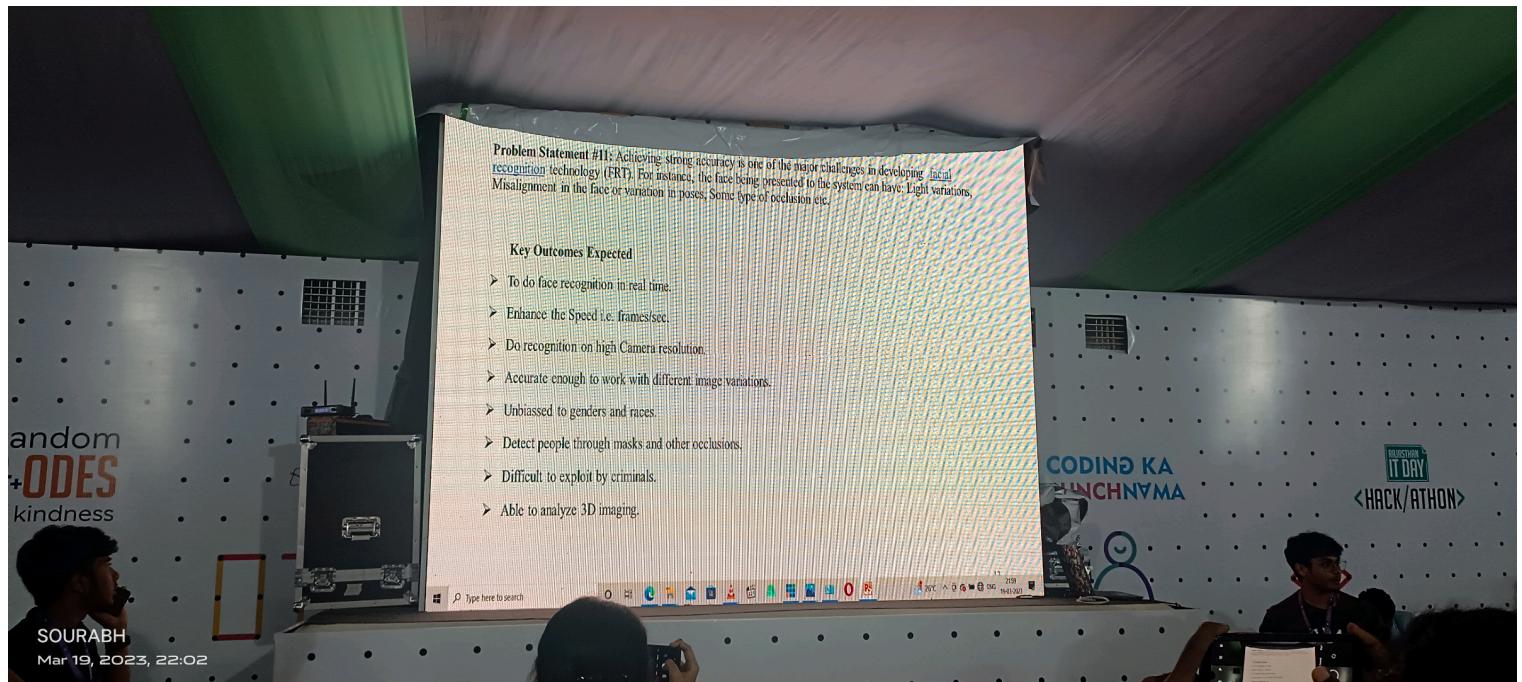
- AI-powered adaptive learning algorithms that tailor content to the individual student's learning style and pace.
- Interactive multimedia content, such as videos, simulations, and gamification, that engage students and reinforce concepts.
- Real-time assessment and feedback to monitor student progress and adjust learning pathways.
- Integration with learning management systems and other educational tools to provide a seamless user experience.

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Problem Statement #12: Sustainability in language technology is crucial for supporting and preserving linguistic diversity, which is an important aspect of human culture and communication.

Current Situation - Many underrepresented languages and dialects are not well-supported by current speech technology due to a shortage of available speech data for training models. Developing speech recognition models for these languages and dialects can play a crucial role in promoting sustainability in language technology and preserving linguistic diversity.

- Key Outcomes Expected

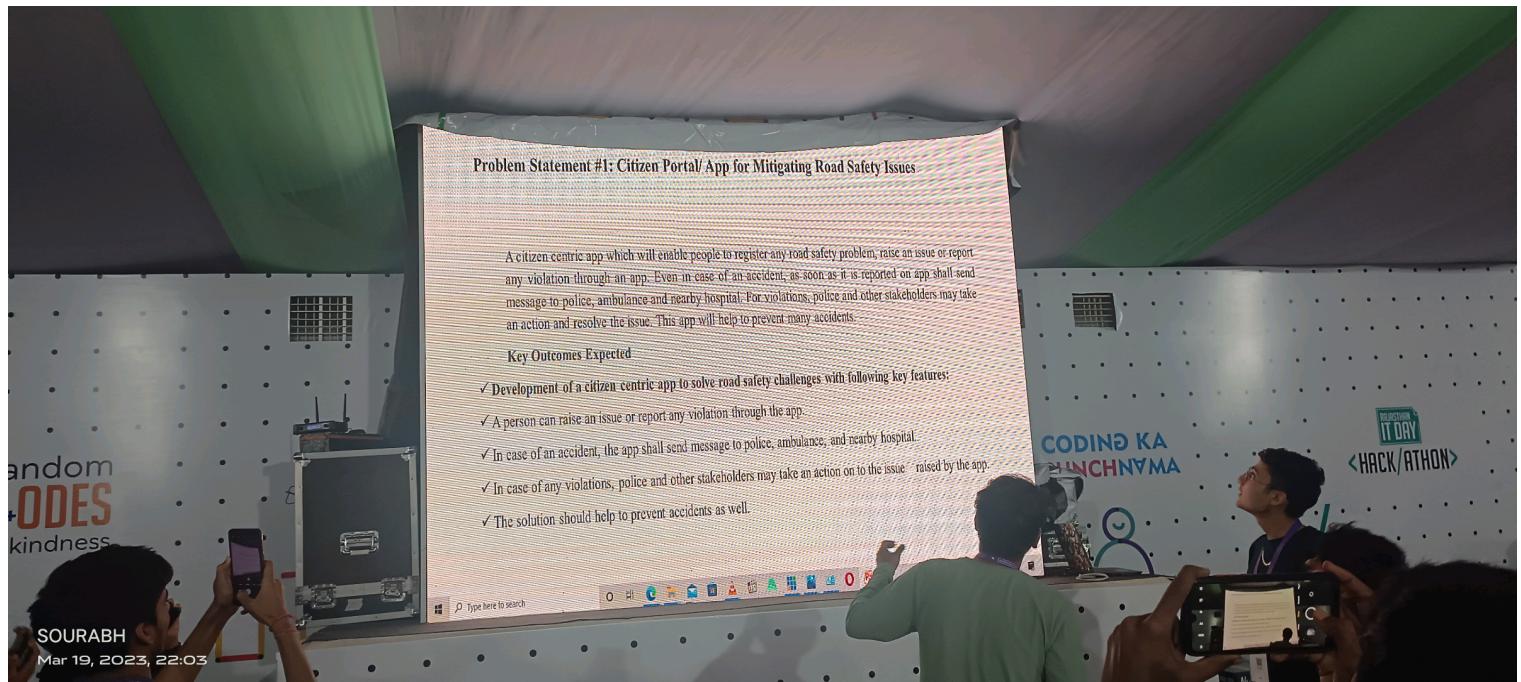
- To develop a generative model that can create synthetic speech samples for underrepresented languages and dialects.
- The model should be able to generate speech samples in a variety of languages and dialects, with a focus on those that are underrepresented in existing speech datasets.
- The generated samples can then be used to train and improve speech recognition models for these languages and dialects, promoting linguistic diversity and reducing language barriers in speech technology.

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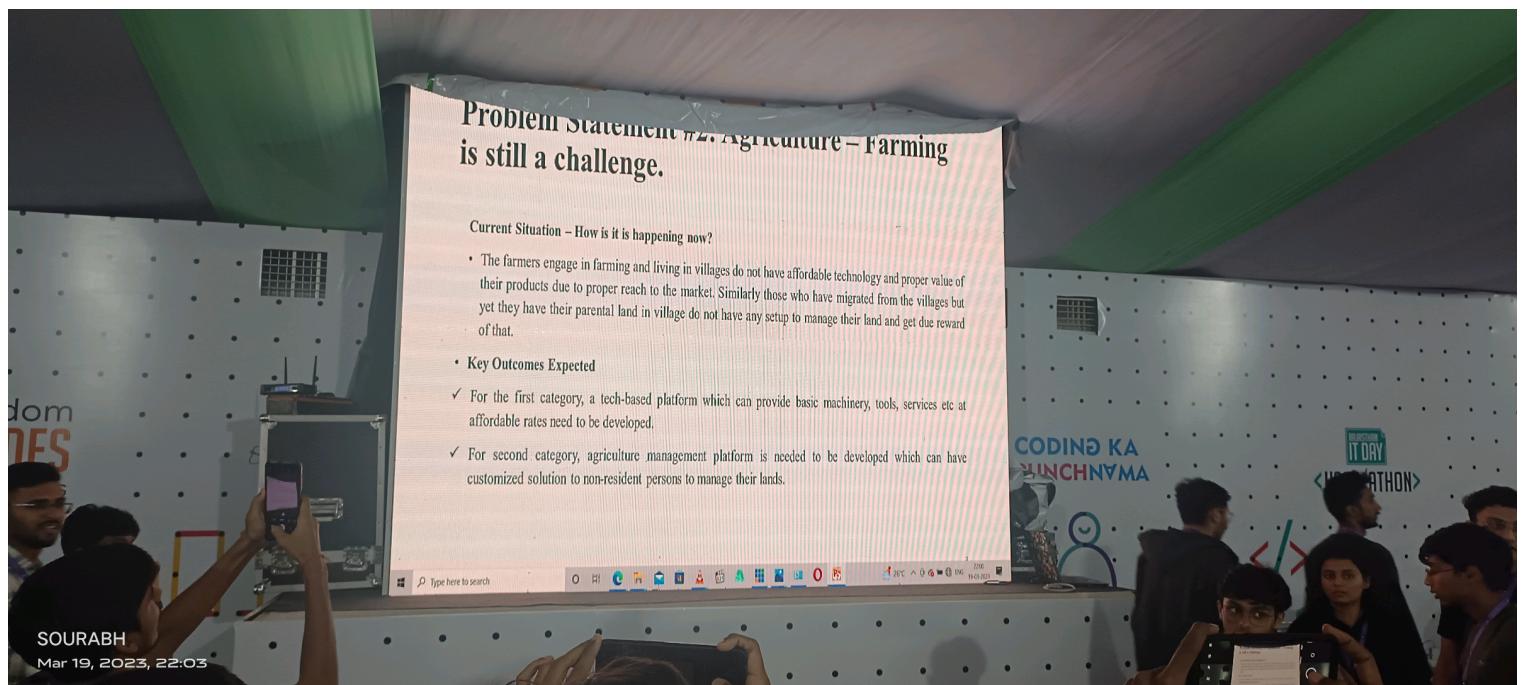
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Problem Statement Agri – Agriculture – Farming is still a challenge.

Current Situation – How is it happening now?

- The farmers engage in farming and living in villages do not have affordable technology and proper value of their products due to proper reach to the market. Similarly those who have migrated from the villages but yet they have their parental land in village do not have any setup to manage their land and get due reward of that.
- Key Outcomes Expected
 - ✓ For the first category, a tech-based platform which can provide basic machinery, tools, services etc at affordable rates need to be developed.
 - ✓ For second category, agriculture management platform is needed to be developed which can have customized solution to non-resident persons to manage their lands.



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Problem Statement #3: Zero food waste system by developing smart app based system to minimise food wastes in the supermarkets/restaurants.

Key Outcomes Expected

- Development of smart app to minimise food waste including features like-
- ✓ A solution that stimulates demand for discounted products with a best before date and to assess the quality of food.
- ✓ Connecting food donors with hunger relief organizations
- ✓ Connecting restaurants that have unsold food with customers looking for discounts.
- ✓ Waste food to nearby animal shelter and for processing if any.

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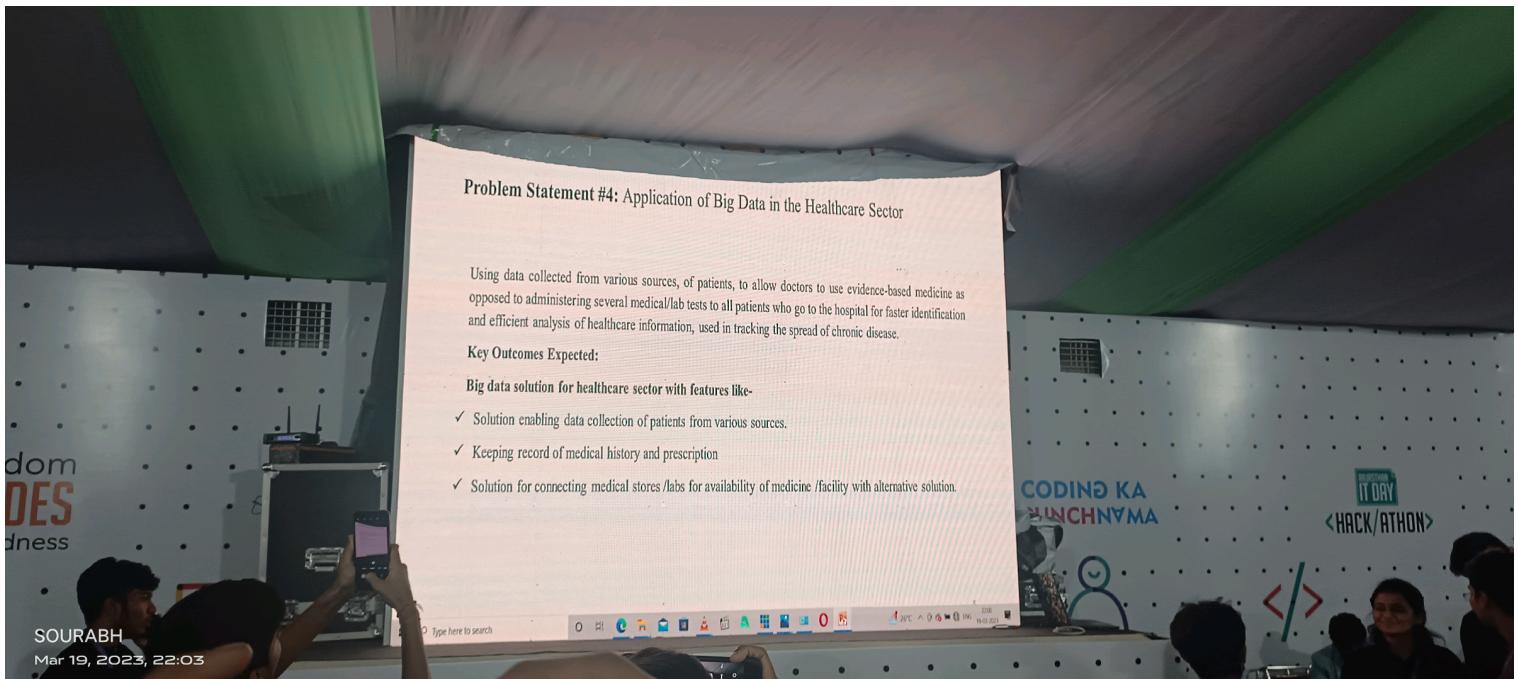
Problem Statement #4: Application of Big Data in the Healthcare Sector

Using data collected from various sources, of patients, to allow doctors to use evidence-based medicine as opposed to administering several medical/lab tests to all patients who go to the hospital for faster identification and efficient analysis of healthcare information, used in tracking the spread of chronic disease.

Key Outcomes Expected:

Big data solution for healthcare sector with features like-

- ✓ Solution enabling data collection of patients from various sources.
- ✓ Keeping record of medical history and prescription
- ✓ Solution for connecting medical stores /labs for availability of medicine /facility with alternative solution.

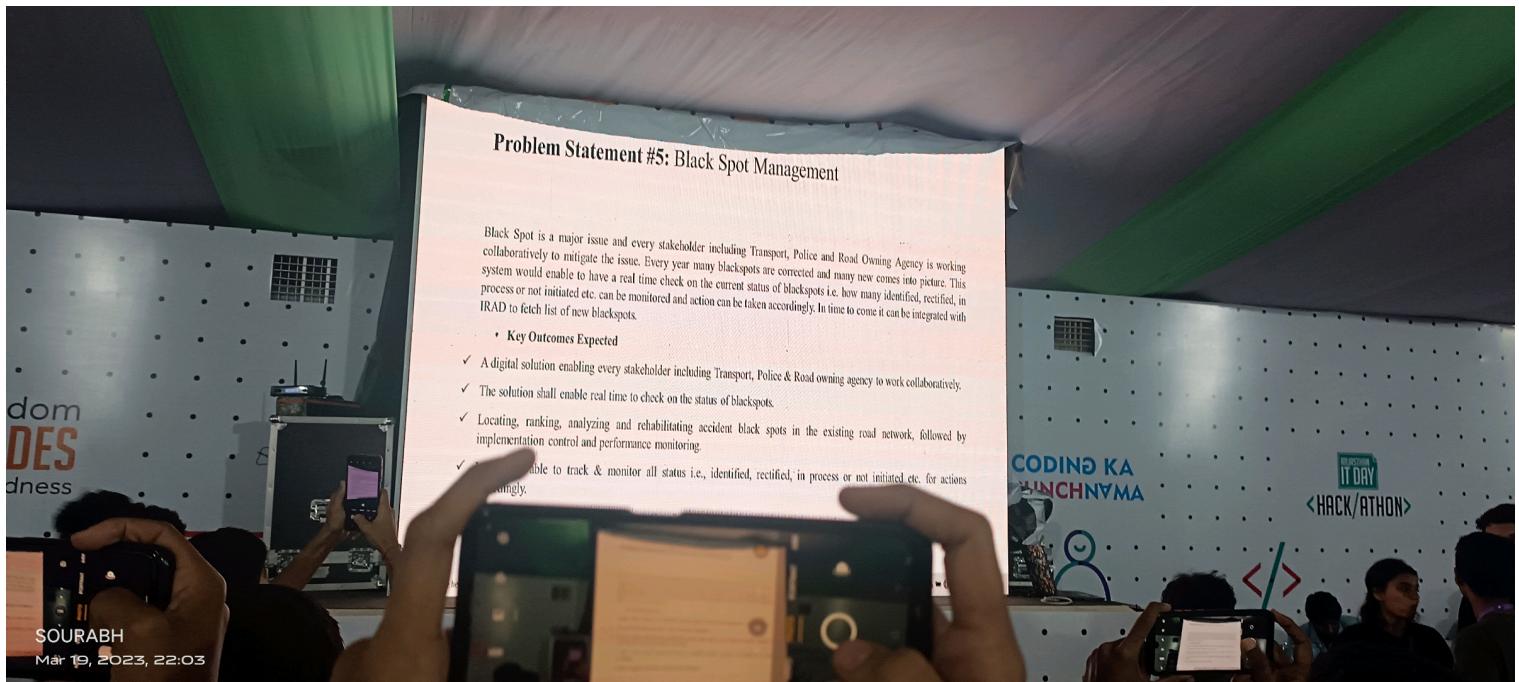


Problem Statement #5: Black Spot Management

Black Spot is a major issue and every stakeholder including Transport, Police and Road Owning Agency is working collaboratively to mitigate the issue. Every year many blackspots are corrected and many new comes into picture. This system would enable to have a real time check on the current status of blackspots i.e. how many identified, rectified, in process or not initiated etc. can be monitored and action can be taken accordingly. In time to come it can be integrated with IRAD to fetch list of new blackspots.

• Key Outcomes Expected

- ✓ A digital solution enabling every stakeholder including Transport, Police & Road owning agency to work collaboratively.
- ✓ The solution shall enable real time to check on the status of blackspots.
- ✓ Locating, ranking, analyzing and rehabilitating accident black spots in the existing road network, followed by implementation control and performance monitoring.
- ✓ Will be able to track & monitor all status i.e., identified, rectified, in process or not initiated etc. for actions accordingly.



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Problem Statement #6: Cyber security improvements to significantly reduce or even alleviate hack attacks.

Key Outcomes Expected

- ✓ Solution using AI to develop to predict new attacks.
- ✓ Solution to notify admin for any data breach instantly.
- ✓ General awareness about the common man precautions as with the increase in number of internet users, cyber security issues have become a matter of great concern.
- ✓ Remedial procedures for different segments & issues

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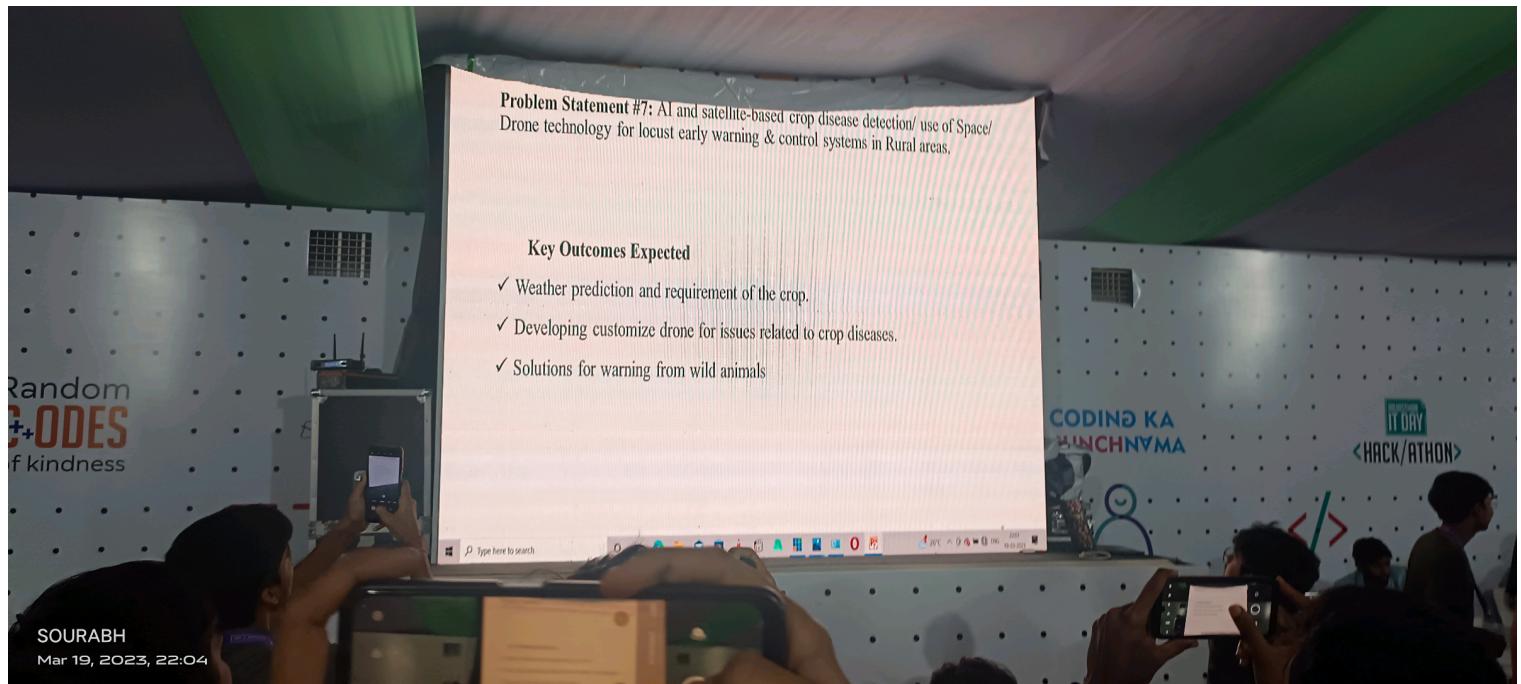
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Problem Statement #7: AI and satellite-based crop disease detection/ use of Space/ Drone technology for locust early warning & control systems in Rural areas.

Key Outcomes Expected

- ✓ Weather prediction and requirement of the crop.
- ✓ Developing customize drone for issues related to crop diseases.
- ✓ Solutions for warning from wild animals



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Problem Statement #8: Tool to detect Financial Fraud

Current Situation – As it has become easier to get connected to people across the world, we are vulnerable to online frauds, scams, putting our money and hard work in vain. The worst part is that the scammer is always at an advantage to impersonate or conceal his actual identity and status.

- Key Outcomes Expected

- Develop a machine learning algorithm that predicts and detects instances of financial fraud and cybercrime in real-time, enabling faster response times and reducing losses.

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Problem Statement #9: Develop a blockchain-based platform that enhances supply chain transparency and accountability for businesses.

Key Outcomes Expected

- Distributed ledger technology that allows for secure and transparent tracking of products and transactions across the supply chain.
- Integration with IoT devices and sensors to capture real-time data and monitor product movements and conditions.
- Smart contracts that automate transactions and enforce contract terms and conditions.

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