

HACKERATTACK'24

Domain/Theme

- 1. Smart Education**
- 2. Healthcare**
- 3. Sustainable Future**

Domain wise Problem Statements

1. Smart Education

A) Developing a software for dubbing of videos from English to other Indian regional languages.

B) Ideate and implement a system to enhance the quality of education in rural areas.

C) Digital Assistant for Legal Awareness and Designing a KYR Know-Your-Rights framework in India

D) Suggest an AI-based solution to enable ease of grievance lodging and tracking for citizens across multiple departments

2. Healthcare

a) Suggestive Automated Mental Health Identification System

Considering the increasing burden of the mental disorders, it is important to identify the people at the risk of developing mental disorder at early stage to take the necessary action. A solution is to be proposed to address the mental health issues at educational institution level in the early stage and suggest the basic treatment required.

b) Optimizing Doctor Availability and Appointment Allocation in Hospitals through Digital Technology and AI Integration.

- c) **Personalized Diagnosis and Treatment-** Develop a solution based on AI that can personalize diagnosis and treatment by predicting disease progression, creating patient-specific treatment plans and enhancing telemedicine experiences.

3. Sustainable Future

- a) **E-waste Monitoring System:** The government and private organizations always require electronic items which may need to be replaced periodically to get benefited by the newly developed electronic gadgets/advanced features. Hence, there is a need to provide a software platform to collect, monitor and recycle E-Waste.
- b) **Crop and soil management System:** Farmers face several challenges related to crop selection, soil management, disease identification and other factors, which can impact agricultural productivity and sustainability. To address these challenges, we need an application to help farmers for full-fledged farming.
- c) AI Powered climate change prediction and modelling