RuralEdge
Digital Health, Education at the Rural Edge

THE LINUX FOUNDATION

LF EDGE
Treating the last “patient” on the digital lane

- 600K HealthCare workers
- No Digital Aid
  - Low Internet Bandwidth
  - No Internet No Apps
- Basic resources are not available
- 850 Million in Rural India
- 1 Doctor per 1497 person
Educating the last “student” on the last mile: For all age and stage
Giving Edge to the last mile: Lean-Green-Smart Network

Proof of Concept
10 Tribal Villages
45 Km from nearest City
Partner: BSNL in remote zones
BP Family: Tami COVID-19

**Target Industry:** Healthcare, Education in Rural/Remote areas

<table>
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<th>Purpose/Features:</th>
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**Use cases & Applications**

| ● Video Processing: Enhance Engagement Quality, Augment Video with information, Create Virtual environment, Transcribe engagements |
| ● Telehealth: Appointment Scheduling, Payment Processing, Electronic Health Records |
| ● Gamification: Reinforce Corrective Behavior, Track Progress, Generate Trends |
| ● Learning Management System: AI Teacher Assist, Early Progress Prediction |

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Validation and Engagement

Track E. Developing new ways to deliver care in a COVID-19 and post COVID-19 world

VaccinatIndia

- Problem: How to facilitate safe delivery of vaccines to large populations of India during and post pandemic?
- Solution: A digital platform for vaccine record-keeping, reminder, scheduling and inventory management

- Problem: Frontline healthcare workers face a daily challenge to stay in the personal protective equipment (PPE) for a longer duration due to exhaustion caused by profuse sweating and discomfort.
- Solution: An adaptable solution to the current personal protection equipment (PPE) used in the current pandemic of COVID-19 giving a hydrophobic property push to the front line workers.

- Problem: Overworked community workers cannot deliver optimal healthcare in rural India.
- Solution: Leverage on-ground communication tools to optimize and enable community workers deliver effective care through real-time patient monitoring and triage of health problems in rural India to reduce on-field burden.

Dayalbagh Educational Institute

Smart Gaon Foundation
Journey so far

- MIT Hackathons: Facilitate Essential Goods Delivery to Elderly (April 2020)
- MIT COVID-19 Challenge Winner (August 2020)
- Partnership with DEI: Secured Video app for Doctors (Sept 2020)
- Working with Akraino Edge: TAMI COVID-19 Blueprint RuralEdge (October 2020)
- Exploring ways to work with Smart Gaon Foundation in 100s of Indian Villages (December 2020)

And Road ahead

- RuralEdge 1.0: LMS+Video Bridge (May 2021)
- RuralEdge 2.0: Docs@Home on EDGE (August 2021)
- RuralEdge 3.0: AI Assist for Teachers (December 2021)
- RuralEdge 4.0: AI Assist for Doctors (Curated Information) (March 2022)
- RuralEdge 5.0: Interoperability with major providers like EPIC, Google Classroom, Zoom (June 2022)
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