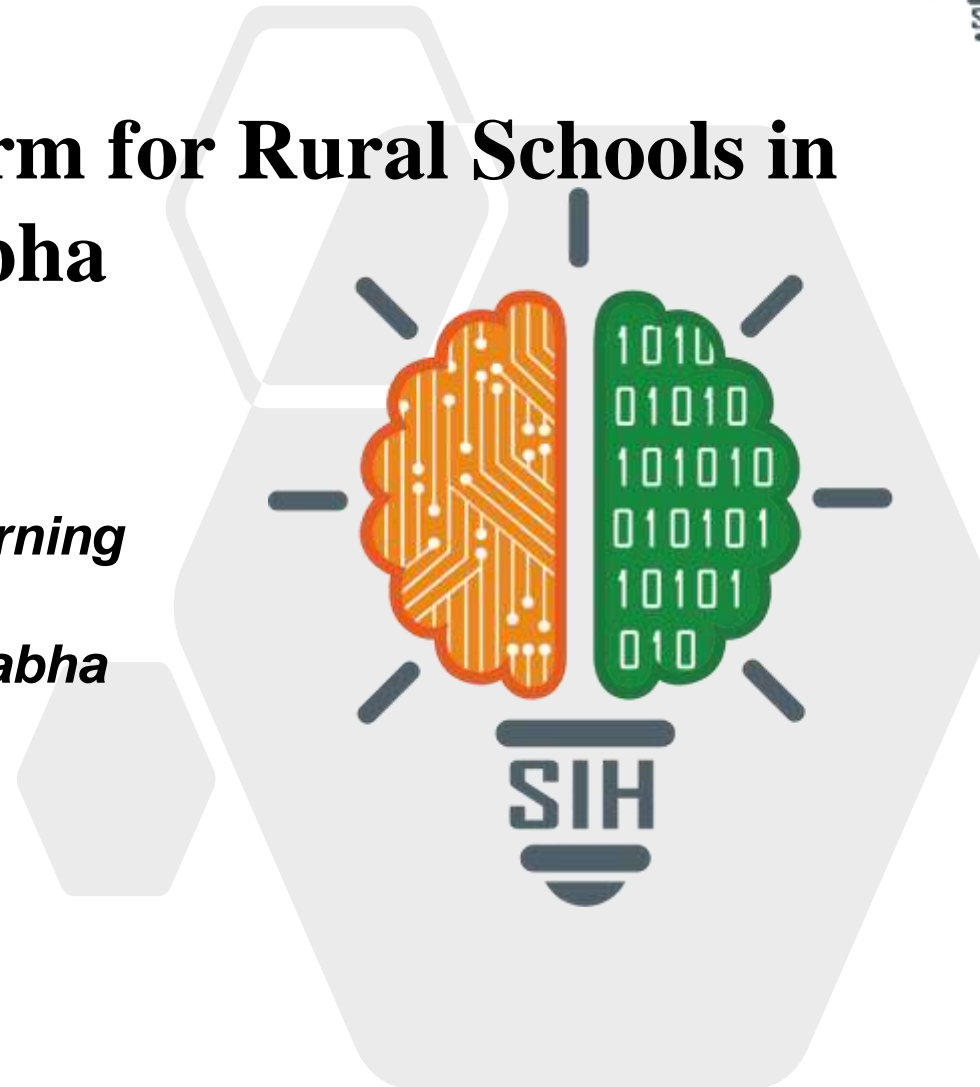


# SMART INDIA HACKATHON 2025



## Digital Learning Platform for Rural Schools in Nabha

- Problem Statement ID – 25091
- Problem Statement Title- *Digital Learning Platform for Rural School Students in Nabha*
- Theme- *Smart Education*
- PS Category- *Software*
- Team ID- *SIH2509*
- Team Name- *Syntax Slayers*



# Hybrid Learning platform

## ❖ Proposed Solution: Hybrid Learning Platform

- A comprehensive digital learning ecosystem will be established, prioritizing an android-first mobile app to ensure accessibility for students while also providing a robust web portal for teachers.
- It offers e-learning solutions with NCERT/state syllabus aligned content, offline accessibility, multilingual support, etc.
- Its uniqueness lies in its inclusive approach combining a mobile app for widespread use in rural areas with a web portal for those which computer access in schools ensuring broad reach.

# TECHNICAL APPROACH



- Frontend: JSS, HTML5, CSS3, React.js, Bootstrap
- Backend: Node.js, Python (Django/Flask), PHP+Laravel
- Database: SQL, NoSQL

# FEASIBILITY AND VIABILITY



- The platform described is highly feasible for rural areas due to its mobile app approach, leveraging the most accessible device for students complemented by a web portal for schools with computer access.
- Potential challenges include limited internet connectivity and need for engaging content.
- These challenges are addressed by offline mode and USB/SD card based resource kits, syllabus aligned multimedia, interactive quizzes and multilingual support alongside a dedicated dashboard for students and teachers.

# IMPACT AND BENEFITS



- The hybrid learning platform benefits the rural population by enhancing accessibility to quality education through mobile app and offline content, bridging the digital gap and fostering social equity.
- It will lead to reduced educational disparities between urban and rural areas by improving skill development and employability.

# RESEARCH AND REFERENCES



- <https://papers.ssrn.com>
- <https://www.cry.org>
- <https://www.geeksforgeeks.org>