



lace

AI-Powered Network Optimization for Better School Connectivity

THE PROBLEM

Disconnected Classrooms: The Silent Educational Divide

- High latency in schools due to distant servers
- Bandwidth bottlenecks affecting educational content delivery
- Inefficient resource distribution across regions
- 2.3 million schools in underserved areas struggling with connectivity





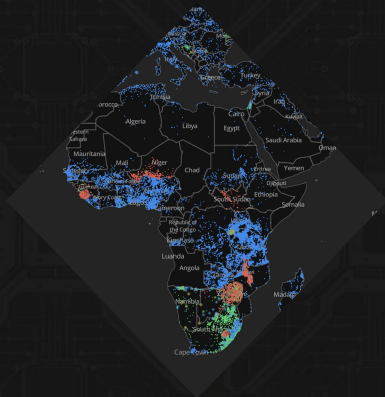
THE SOLUTION

Lace: From Disconnected to Dynamically Linked

- Optimizes internet traffic across regions by leveraging existing infrastructure
- Reduces bandwidth consumption while dramatically improving network connectivity
- Strategically proposes centralized data centers serving 90%+ of school content needs

HOW LACE WORKS

From Data to Deployment



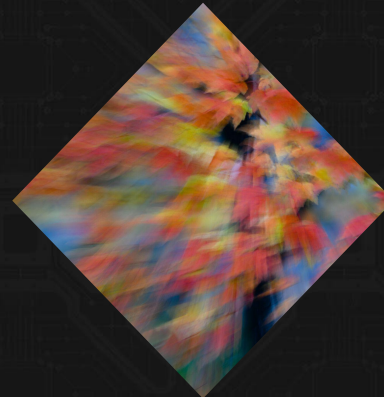
Data Analysis

Utilize Giga's dataset
of 2.3 million schools



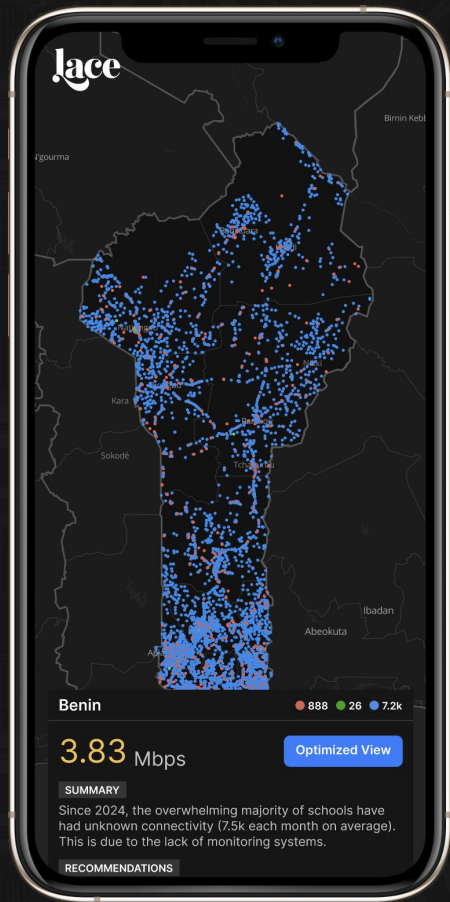
AI Network Modeling

Simulating, predicting, and
generating actionable insights
for infrastructure optimization



Dynamic Optimization

Continuously adapting
infrastructure based on
AI-generated insights



Lace Tech Stack

AI/ML

Python (Scikit-learn)
Pandas

Visualization

Streamlit
Folium

Data

Giga School Connectivity
OSM
World Bank

TEAM

Founders Who Deliver



Sidratul Hayat Khan

- Prompt Pioneer
- AI Enthusiast
- Active Learner with a deep passion for artificial intelligence
- Automation
- Real-world problem-solver



Muhammad Ali

- Engineer
- Prompt Engineer
- Data Analyst



Jessica Greenwalt

- 20 years of experience nudging human behavior at scale for silicon valley's tech giants
- Developed Web3 strategies, campaigns, and products for the world's biggest brands
- Co-founded a YC company that solves the world's most difficult medical cases in a fraction of the time and cost of the traditional medical system



Muhammad Hamza Hassaan

- 3rd year student of Computer Science
- Full stack Applications and ML models

MARKET

A Trillion-Dollar Connectivity Revolution

- Target: Governments and educational institutions in developing countries
- Potential to improve connectivity for millions of students globally
- Aligns with UN Sustainable Development Goal 4: Quality Education
- Easy to replicate and scale across locations and use cases





lace

Join the Connectivity Revolution