

ConnectSense



Bridging South Asia's Digital Divide

AI-Powered Connectivity Planning for
Underserved Communities

Challenge!

- 900+ million people disconnected in South Asia.
- 90% of school-age children lack home internet.

Majority of rural schools and clinics with limited/no connectivity



Three Critical Barriers

- Technical complexity overwhelms non-specialists.
- Environmental challenges (monsoons, mountains)
- Varied regulatory landscapes across regions



Introducing ConnectSense

1. AI-powered tool using specialized LLMs and Agents
2. Intuitive Streamlit interface requiring minimal bandwidth
3. Open-source approach ensuring accessibility

Core Innovation!

- Specialized LLM with telecom knowledge.
- Region-specific Agents for contextual solutions.
- Streamlit interface for accessibility

Competitive Landscape

How We're Different

- **Traditional consultants:** Expensive (\$10-50K), slow (months), limited regional expertise
- **Generic LLMs:** Lack telecommunications knowledge and regional context
- **ConnectSense:** Immediate, accessible, specialized, open-source



Revenue Model

Open Source

- ⬡ **Community Tier:** Free for individual leaders
- ⬡ **Professional Tier:** \$19/month for enhanced features
- ⬡ **Enterprise Tier:** \$199/month for white-labeled deployment

Demo Time

Technical Implementation

Under the Hood

- ⬡ Gemini and Groq API for LLM capabilities
- ⬡ Streamlit for rapid deployment
- ⬡ Vector database for contextual retrieval
- ⬡ Internal AI Agents for specific roles
- ⬡ Multilingual support for 8 South Asian languages
- ⬡ 100% open-source under MIT license

Real-World Impact

Measurable Outcomes

- 300+ students reached per connected school
- 5,000+ patients served per connected clinic
- 70% planning time reduction
- 40% cost savings through optimized designs

Market Opportunity

Growth Potential





\$4.2B

annual spending on rural connectivity

200,000+

public institutions needing solutions in next 5 years

\$1.8B

potential savings through optimized planning

Open Source & Roadmap

Future Development

- Phase 1 (Current): Basic planning assistance
- Phase 2 : Satellite imagery integration
- Phase 3): Expanded regulatory coverage
- Phase 4 : Offline functionality

Thanks!

You can find us at:

Website:

<https://connectsense-bot.streamlit.app/>

GitHub:

https://github.com/aabdullah27/ConnectSense_Backend