

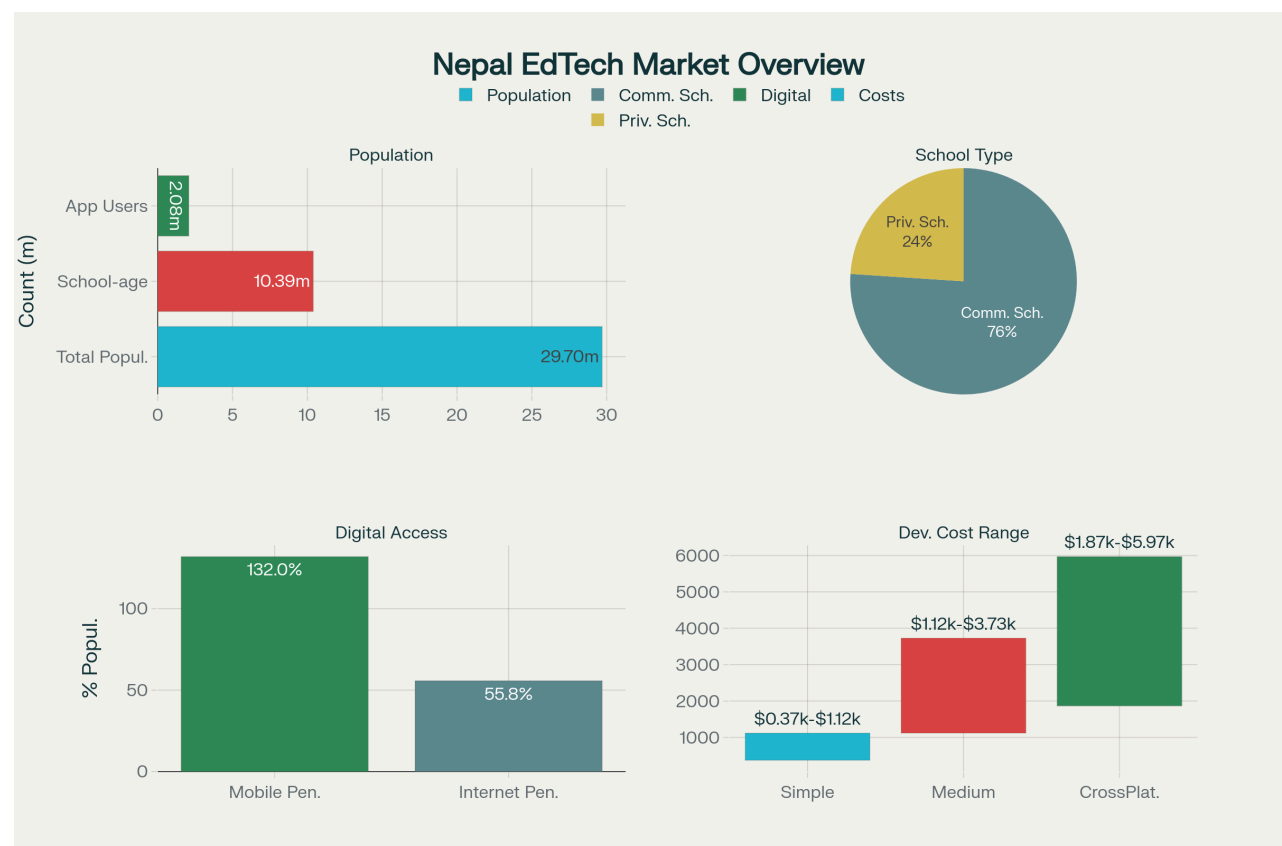


Nepal K-12 EdTech MVP Research Report: Draw-Solve-Chat Android App

Based on comprehensive research into Nepal's education technology landscape, I've prepared a detailed feasibility study for your mobile-first MVP concept. Here are the key findings and strategic recommendations:

Executive Summary & Strategic Recommendation

Proceed with the MVP pilot - Nepal presents a compelling market opportunity with 2.1 million potential K-12 users, favorable digital infrastructure (132% mobile penetration), and a clear competitive gap for integrated draw-solve-chat educational tools.



Nepal EdTech Market Analysis Dashboard: Population, Schools, Digital Infrastructure & Development Costs

Market Opportunity Assessment

Nepal's K-12 education market shows strong fundamentals:

- **Student Population:** 10.4 million school-age children with 2.1 million potential app users
- **Digital Infrastructure:** 132% mobile penetration, 55.8% internet adoption^[1]
- **Government Investment:** Rs 211.7 billion education budget (3.9% growth)^[2]
- **Data Affordability:** Rs 35 per GB makes Nepal globally competitive^[3]
- **Enrollment Demand:** 75.8% secondary enrollment indicates strong market^[4]

Competitive Landscape & Differentiation

No existing solution combines drawing interface, AI solving, and conversational tutoring:

- **Photomath:** Global leader but lacks drawing interface^[5]
- **Local Players:** Focus on exam prep or textbook solutions, missing AI integration
- **Gap Opportunity:** First mover advantage in comprehensive draw-solve-chat functionality

Technical Feasibility & Cost Structure

Recommended Approach: Cross-platform development (Flutter/React Native)

- **Development Cost:** Rs 250,000-800,000 (\$1,866-\$5,970)
- **Timeline:** 40-week roadmap from MVP to iOS launch
- **Core Features:** Achievable with existing open-source libraries and APIs^[6] ^[7]

Pilot Design Strategy

Target Schools: 3-5 institutions in Kathmandu/Pokhara

- Private schools with technology infrastructure
- Grades 6-10 mathematics focus
- 150-300 student pilot population
- 6-month validation period

Business Model & Revenue Projections

Freemium Strategy:

- Student Premium: Rs 199/month
- School Bundles: Rs 2,999/month per 50 students
- Year 1 Target: Rs 1.8 million annual revenue
- Year 2 Projection: Rs 7.8 million with regional expansion

Risk Mitigation & Success Factors

Critical Success Elements:

- Privacy compliance with Nepal's Individual Privacy Act 2018^[8]
- Strong local partnerships for credibility
- Robust offline functionality for connectivity challenges
- Cultural sensitivity in design and content

Scale-Out Strategy

Phase 1: Nepal urban markets (Months 1-18)

Phase 2: National expansion (Months 12-36)

Phase 3: South Asian markets - Bangladesh, Sri Lanka (Months 24-48)

The research indicates strong market fundamentals, achievable technical requirements, and clear differentiation opportunity. The regulatory environment is supportive, development costs are reasonable, and the competitive landscape shows an open market for this innovative approach.

Next Steps: Initiate school partnerships, assemble technical team, and begin MVP development following the detailed roadmap provided in the comprehensive report above.

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1. <https://www.stellarmr.com/report/k12-education-market/2669>
2. <https://files.eric.ed.gov/fulltext/EJ1093429.pdf>
3. <https://worldyouth.org.au/about-us/media-and-news/2020/challenges-of-digital-education-in-nepal-and-its-impact-on-students>
4. <https://www.researchandmarkets.com/reports/5989782/k-12-private-education-market-report>
5. <https://falanocollege.com/edtech-in-nepal/>
6. <https://www.nepjol.info/index.php/pragyaratna/article/download/59277/44310/175282>
7. <https://virtuemarketresearch.com/report/k12-online-education-market>
8. <https://www.hamroacademy.com/blog/from-technology-to-learning-edtech-in-nepal>