UIDAI DATA HACKATHON, 2026

BRIDGING GAPS IN AADHAAR UPDATION: DATA-DRIVEN INSIGHTS FOR INCLUSION

Team Registration No: UIDAI_3165

Team Members: 1. Rayyan Sayed
2. Parnavi Wanare
3. Mrunmayee Datar
4. Jujhaar Singh Aidhen
5. Arjun Chambarge

Institution: Vishwakarma University

SUMMARY

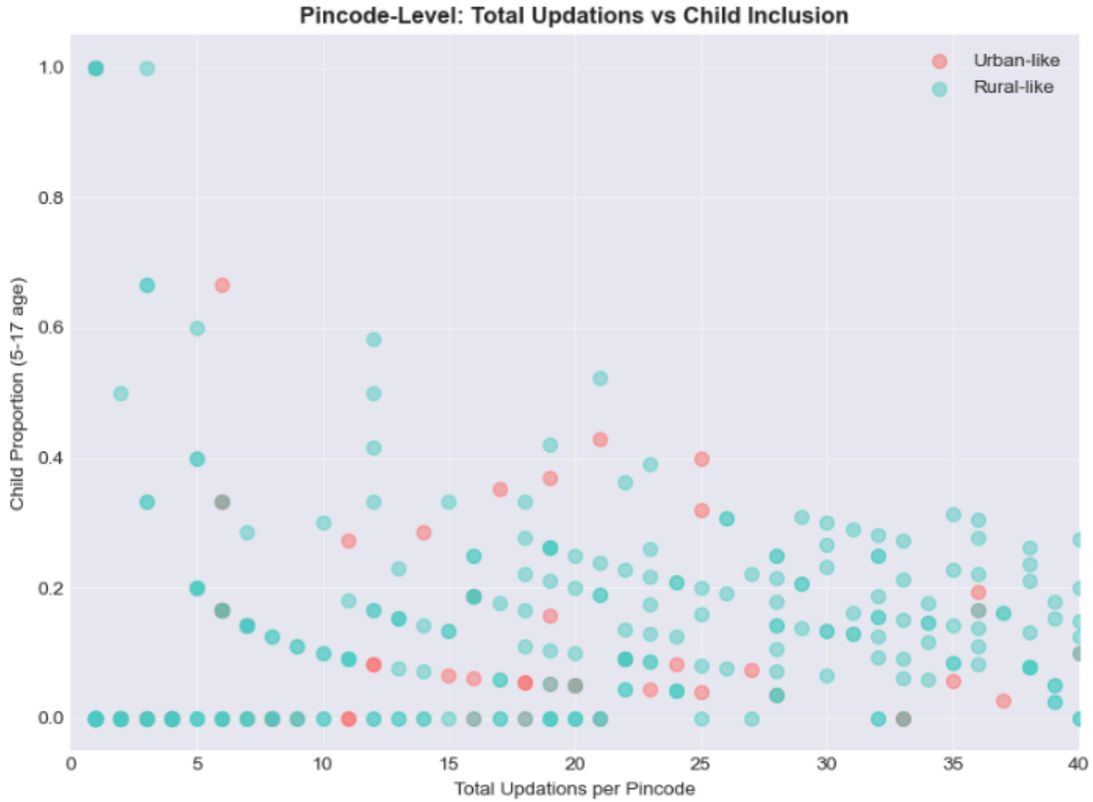
- Aadhaar enables access to welfare, education, health, and financial services
- While enrolment is near-universal, updation remains uneven
- Low updation leads to invisible exclusion, especially amongst:
  a. Rural populations
  b. Children aged 5–17 years
- This project uses large-scale updation data to identify:
  a. 6 under-performing states
  b. 80 high-risk districts
  c. 255 critical pincodes
- Outputs include interactive dashboards and a proposed citizen-facing application

PROBLEM CONTEXT

- Aadhaar updation failures are often overlooked compared to enrolment
- Consequences include:
  a. Authentication failures
  b. Denial of education-linked benefits to children
  c. Reduced welfare access in rural areas
- The issue is not only low updation, but systemic inequality across:
  a. Geography
  b. Settlement type
  c. Age groups
- Objective: Convert raw updation data into actionable intelligence for targeted policymaking

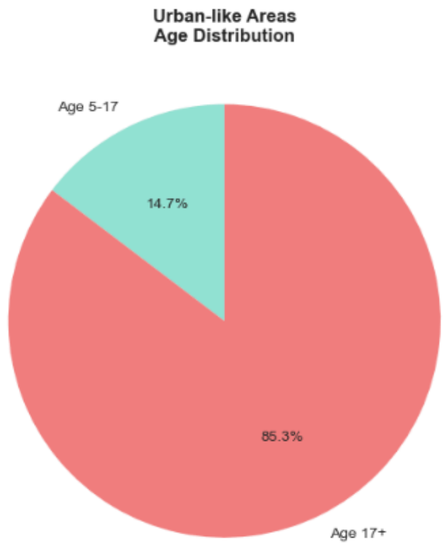
DATA DESCRIPTION & SCOPE

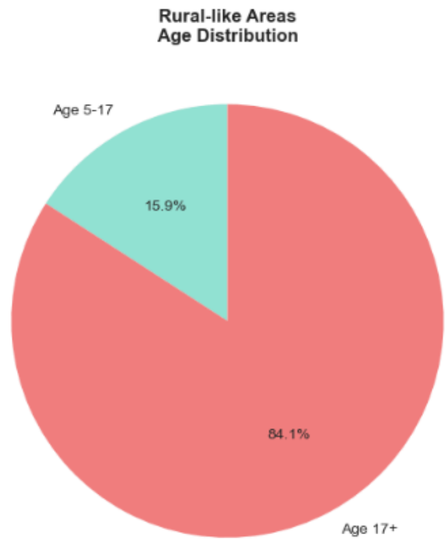
- Geographic Coverage: Multiple Indian states
- Granularity: State → District → Pincode
- Temporal Coverage: Daily Aadhaar updation records
- Key Variables:
  a. Total updations
  b. Age groups: 5–17 and 17+
  c. Area type: Urban-like vs Rural-like
- Enables both macro-level comparison and micro-level targeting



METHODOLOGY

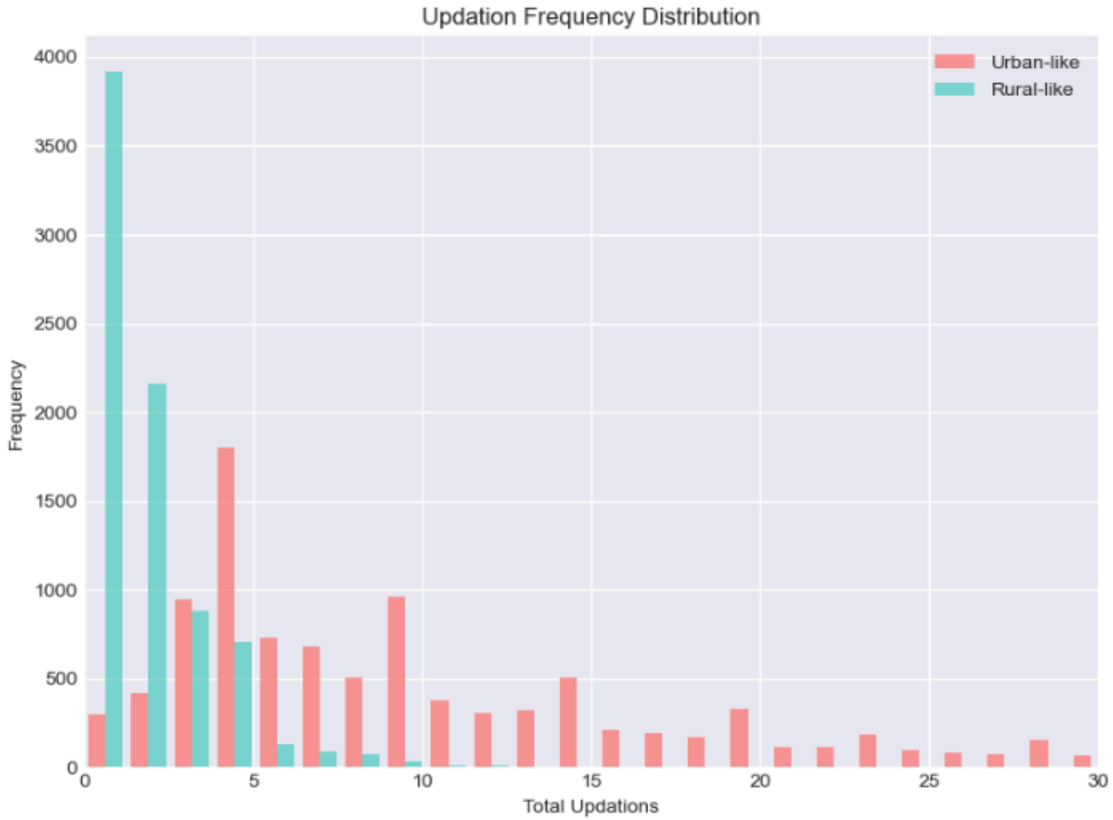
- Identification of low-performing states using updation volume and growth trends
- Classification of pincodes as urban-like or rural-like using district median logic
- Segmentation into policy-relevant age groups (5–17, 17+)
- Statistical validation using t-tests and p-values
- Growth, gap, and risk analysis to identify:
  a. High-risk districts
  b. Top-performing districts
  c. Critical pincodes





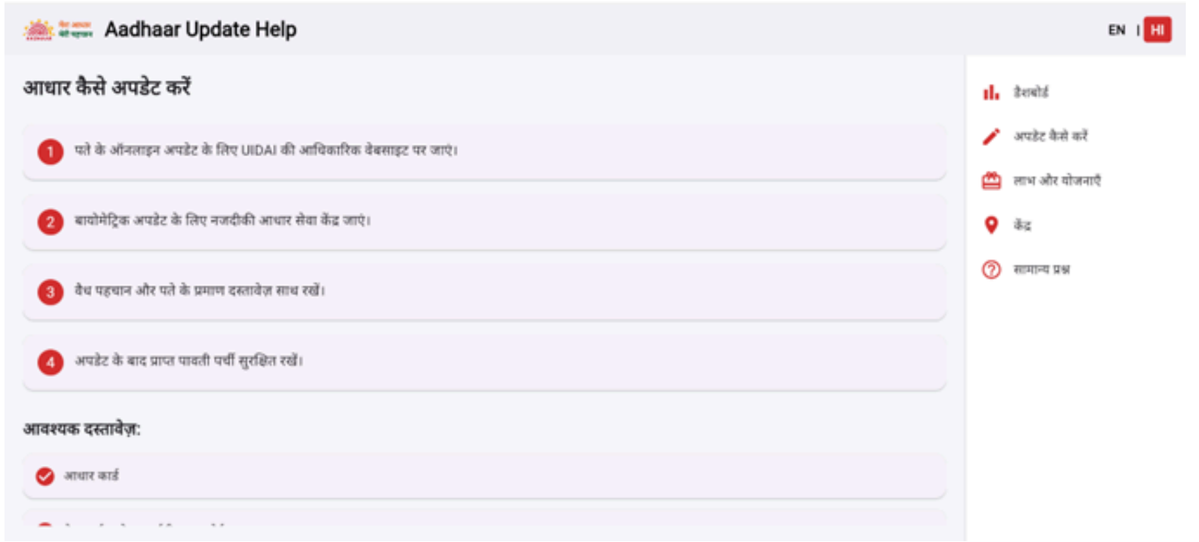
ANALYSIS & KEY FINDINGS

- Updations are heavily concentrated in urban-like areas
- Rural-like areas show:
  a. Lower absolute updations
  b. Slower cumulative growth
  c. Children (5–17) are significantly under represented in rural updations
  d. Strong inter-state inequality in updation efficiency
  e. Several districts and pincodes emerge as priority intervention zones



CITIZEN-FACING APPLICATION

- Integrates insights into a citizen-accessible platform
- Features include:
  a. Embedded dashboards for transparency
  b. Step-by-step Aadhaar updation guidance
  c. Clear explanation of benefits of timely updation.
  d. FAQs to address information gaps
  e. Language support in English and Hindi
- Future Scope: Expansion to multiple regional Indian languages



RECOMMENDATIONS & POLICY IMPLICATIONS

Immediate (0–6 months)

- Mobile updation camps in high-risk districts
- School-based updation drives (ages 5–17)
- District-level dashboard monitoring

Short-Term (6–18 months)

- Incentivised rural campaigns
- Integration with school and anganwadi systems
- Capacity building of enrolment operators

Long-Term (18+ months)

- Lifecycle-based updation policy
- Automated reminders via SMS/app
- Continuous data-driven governance monitoring

IMPACT & WAY FORWARD

- Prevents exclusion of children and rural populations
- Enables targeted, data-driven interventions
- Scalable and feasible using existing infrastructure
- Reframes Aadhaar updation as an inclusion-focused governance challenge
- Aligns with the vision of Digital India