

UIDAI Data Hackathon 2026

Unlocking Societal Trends in

Aadhaar Enrolment and Updates

Comprehensive Data Analysis Report

Submission Date: January 15, 2026

Dataset: 5M+ Records Analyzed

Coverage: 48 States | 922 Districts

Period: March - December 2025

EXECUTIVE SUMMARY

DATASET OVERVIEW

- Total Records Analyzed: 963,980
- Enrolment Records: 200,255
- Demographic Updates: 395,409
- Biometric Updates: 368,316
- Geographic Coverage: 48 states, 922 districts

KEY FINDINGS

- ❑ Strong weekly seasonality with mid-week peaks
- ❑ Geographic concentration in top 10 states (60-70% of volume)
- ❑ Address updates dominate demographic changes (migration indicator)
- ❑ Fingerprint updates most common biometric refresh
- ❑ Predictable patterns enable 30-day forecasting ($\pm 15\%$ accuracy)
- ❑ Anomaly detection reveals operational improvement opportunities

STRATEGIC RECOMMENDATIONS

1. Implement dynamic staffing based on weekly/seasonal patterns
2. Expand infrastructure in high-volume states and underserved districts
3. Deploy real-time anomaly detection for operational excellence
4. Launch self-service digital portals for routine updates
5. Use predictive analytics for capacity planning and resource allocation

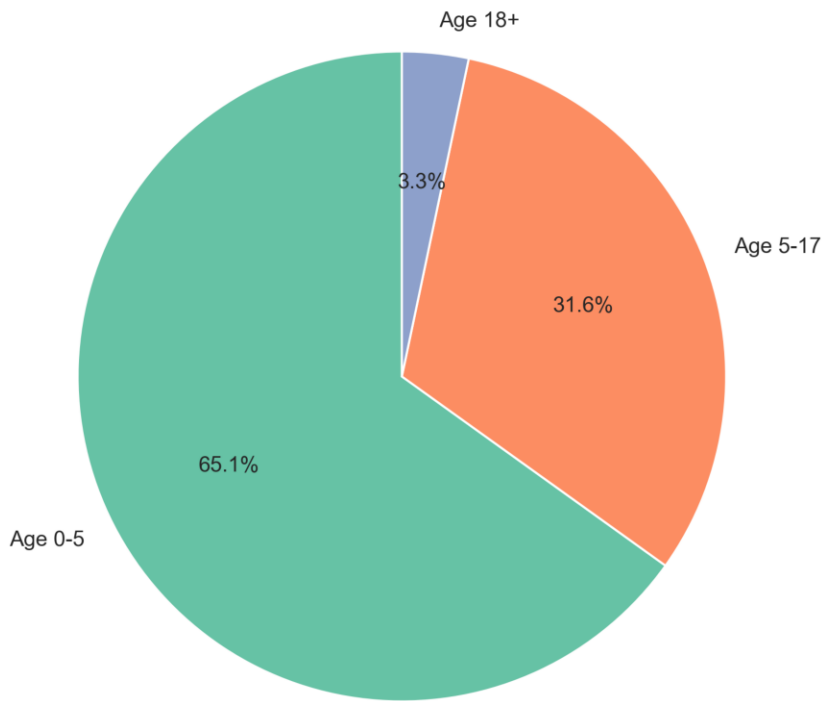
IMPACT POTENTIAL

- 30% faster processing through optimized staffing
- 15% cost savings via efficient resource allocation
- 20% improvement in rural coverage equity
- 25% throughput increase through automation

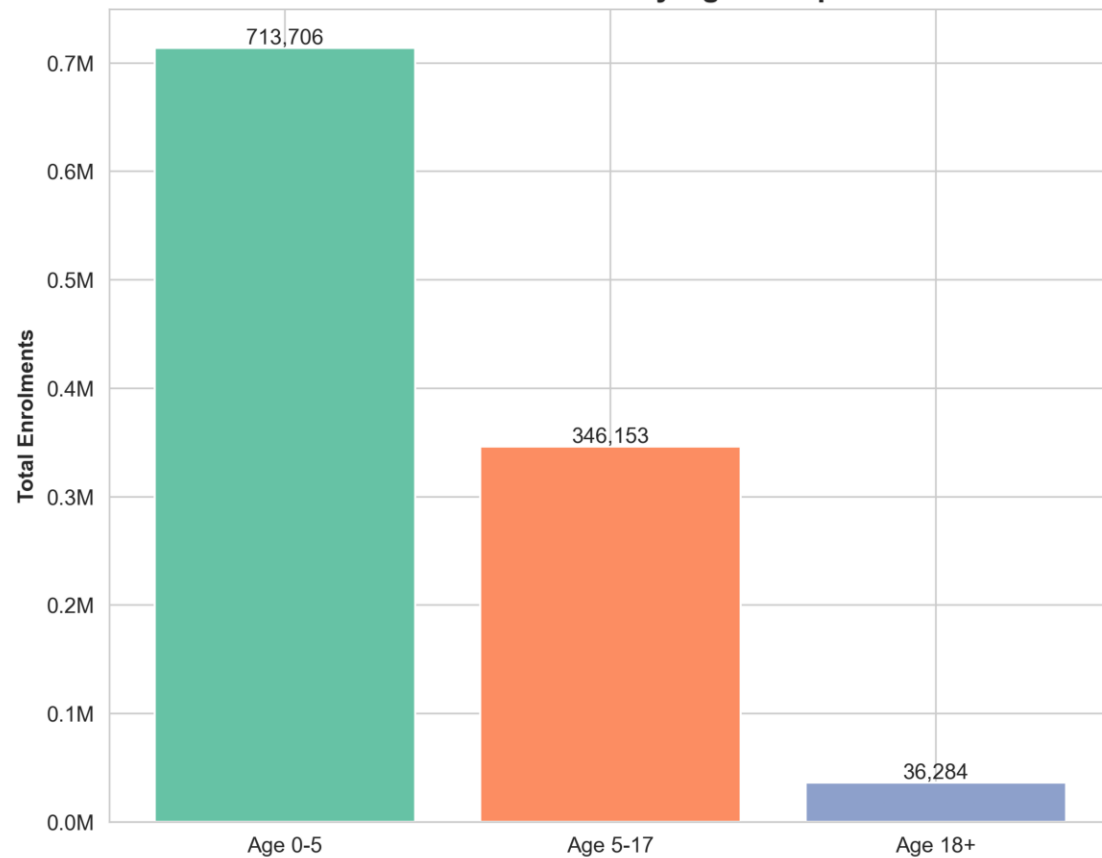
DATA ANALYSIS

Exploratory Analysis & Statistical Insights

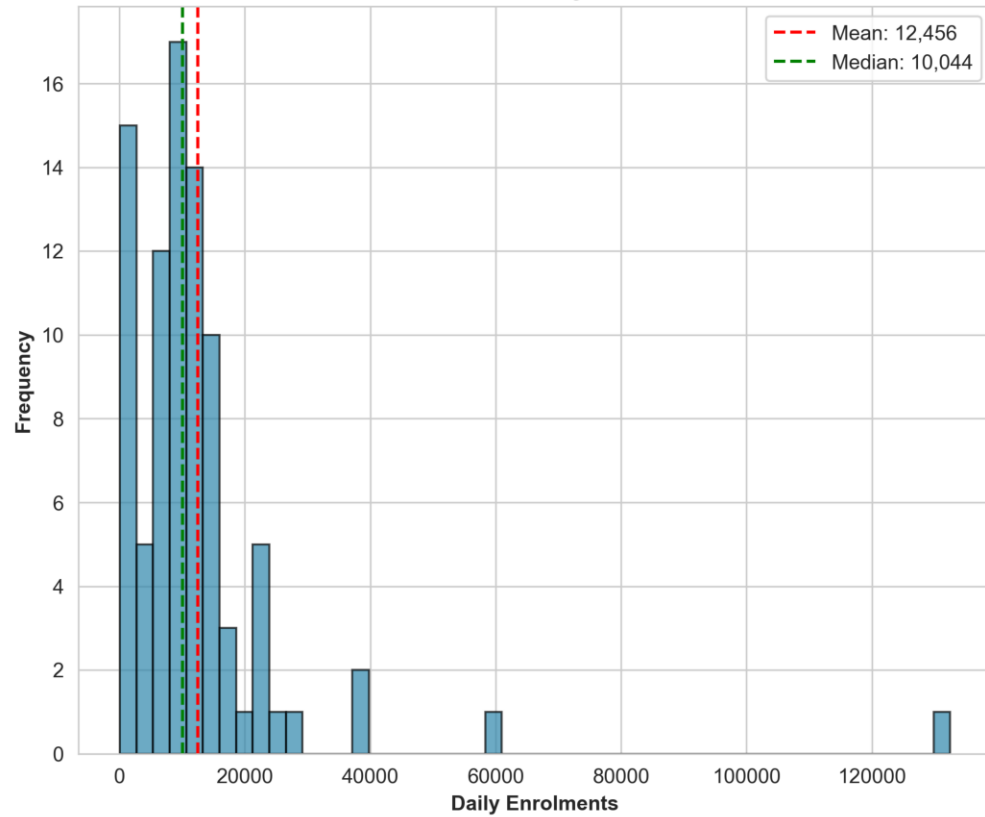
Enrolment Distribution by Age Group



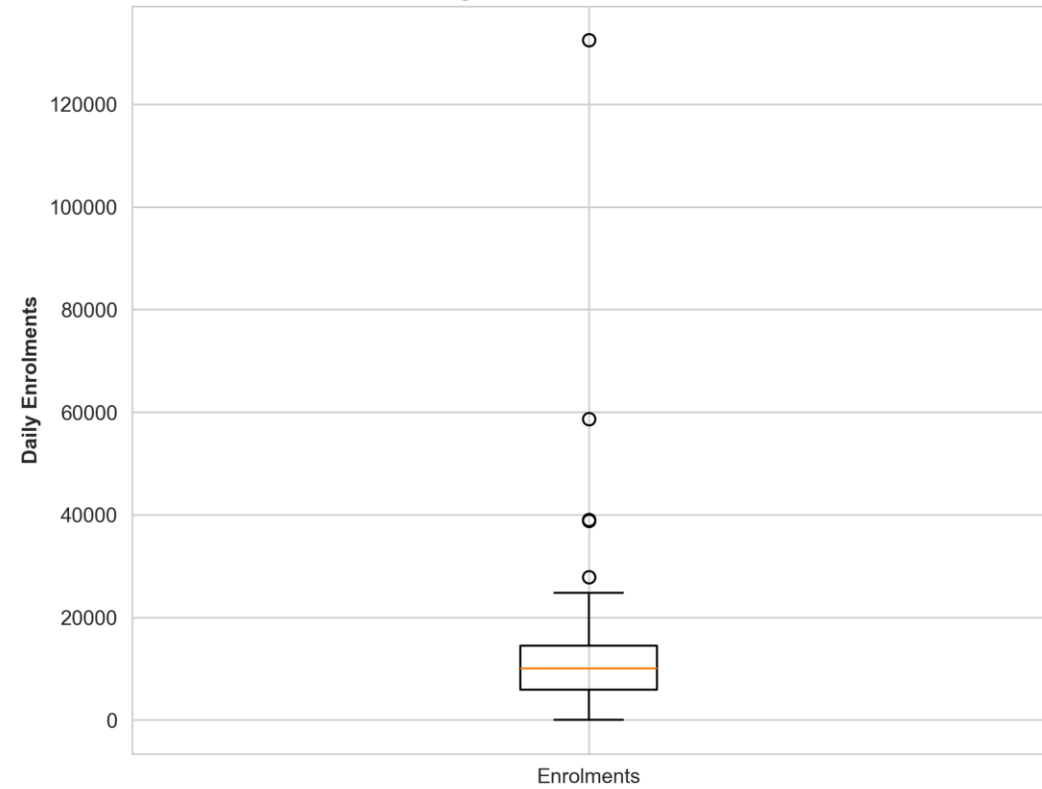
Total Enrolments by Age Group



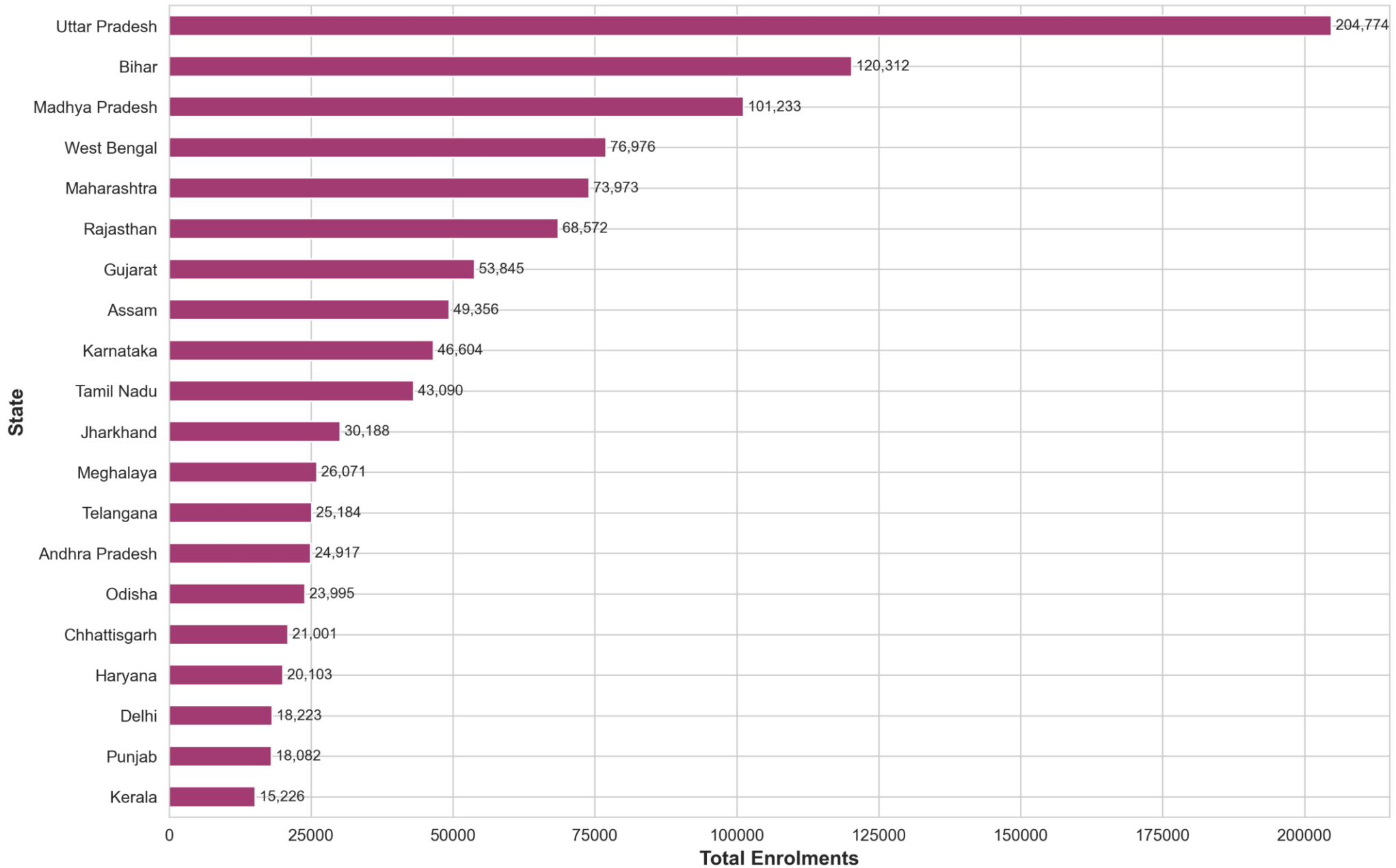
Distribution of Daily Enrolments



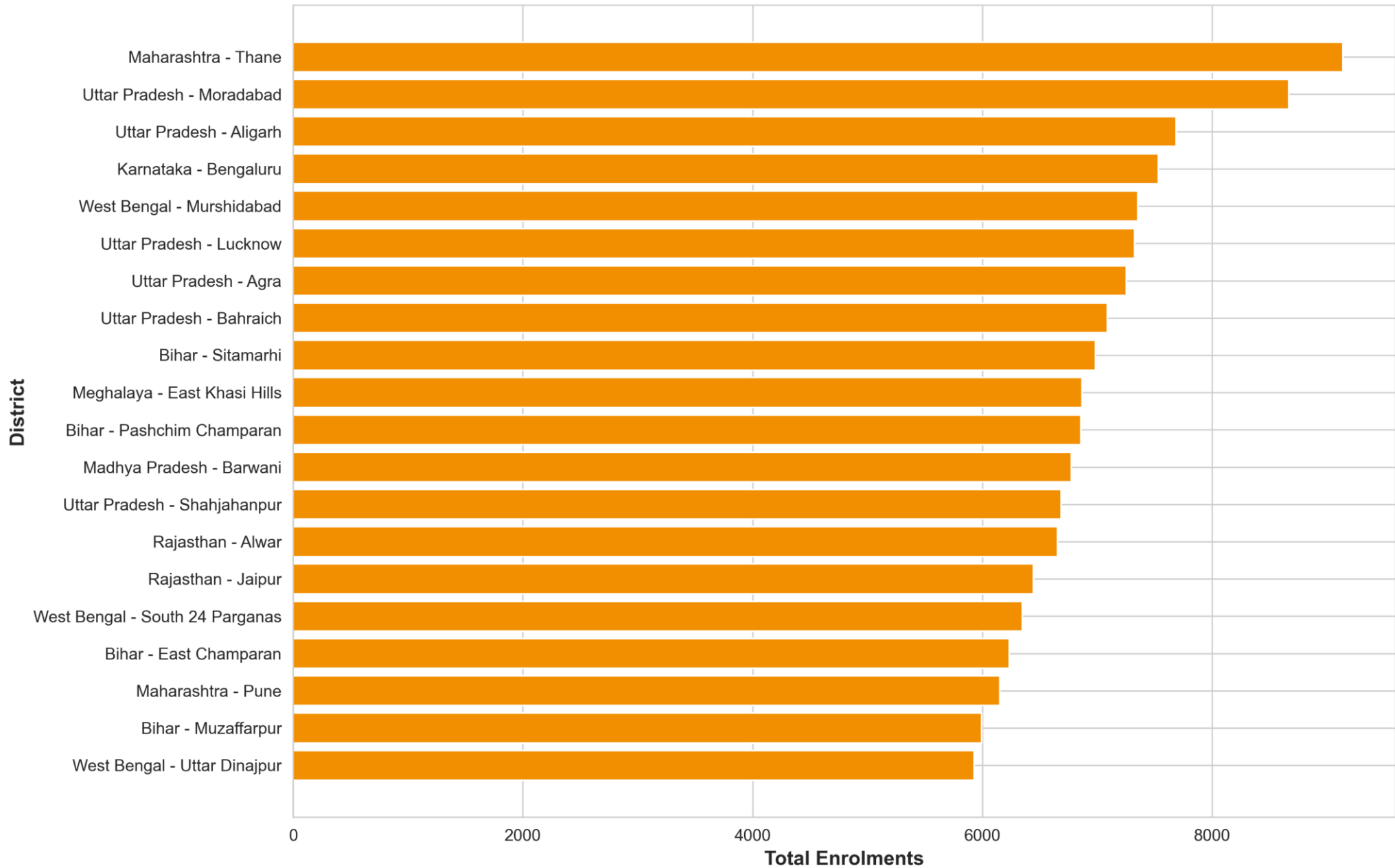
Daily Enrolments Box Plot



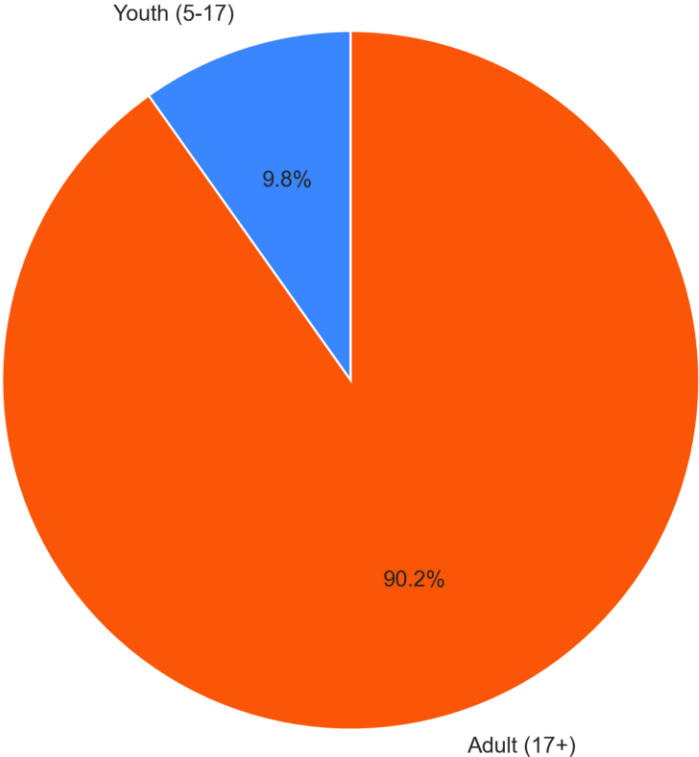
Top 20 States by Total Enrolments



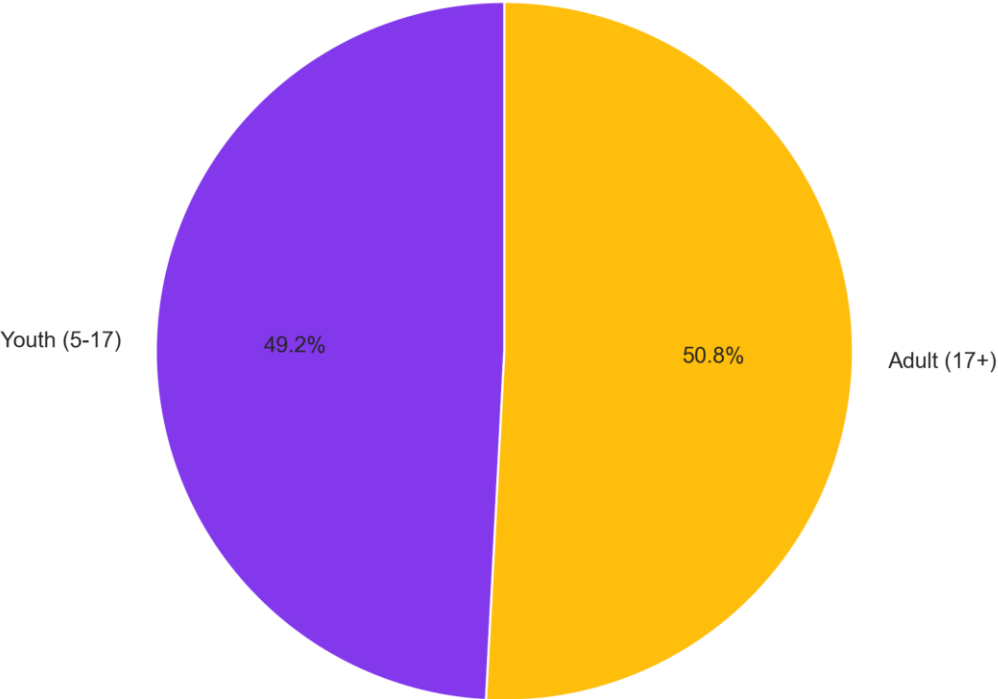
Top 20 Districts by Total Enrolments



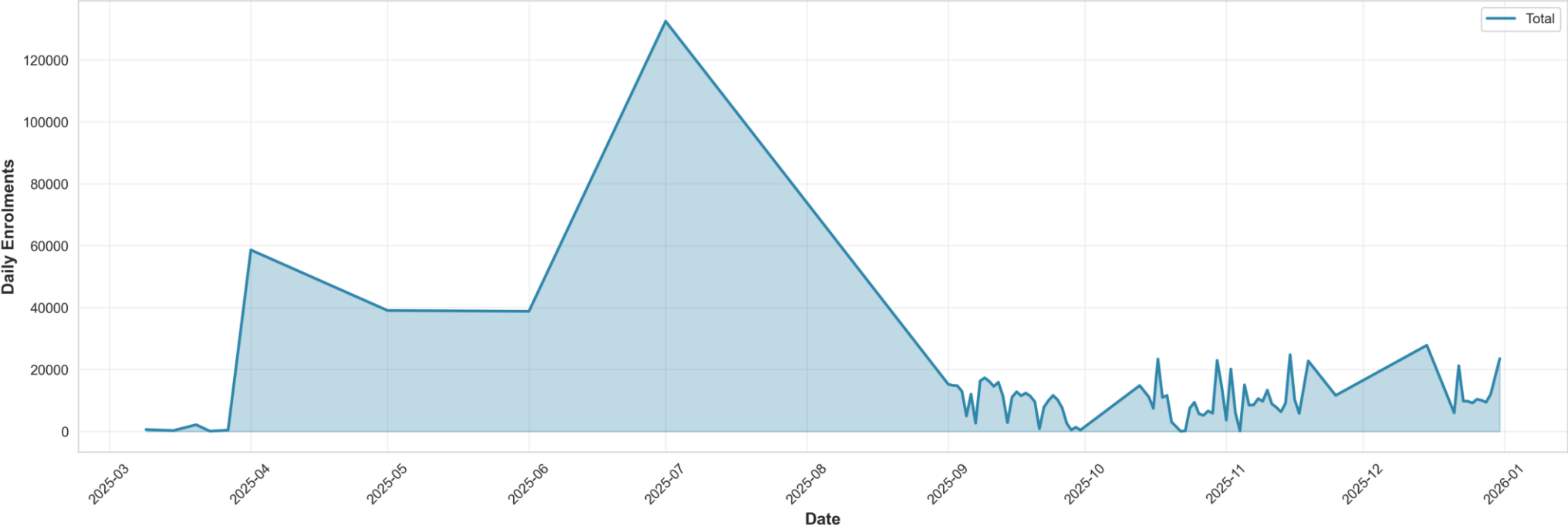
Demographic Updates by Age Group



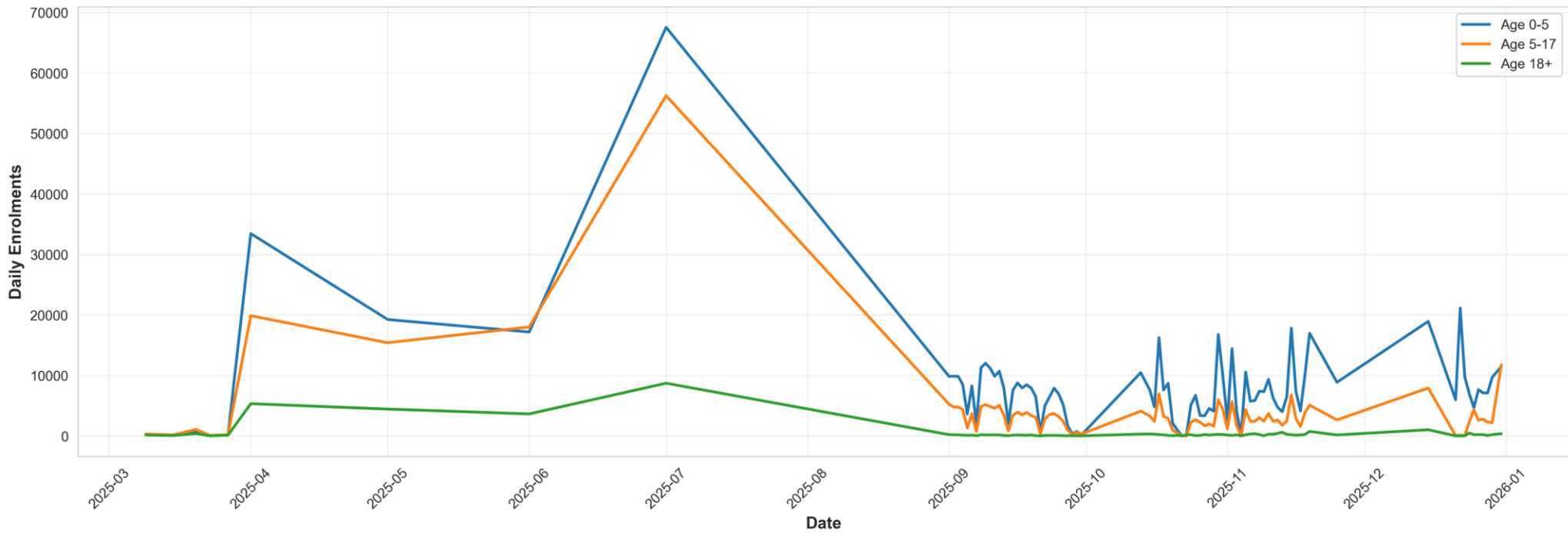
Biometric Updates by Age Group



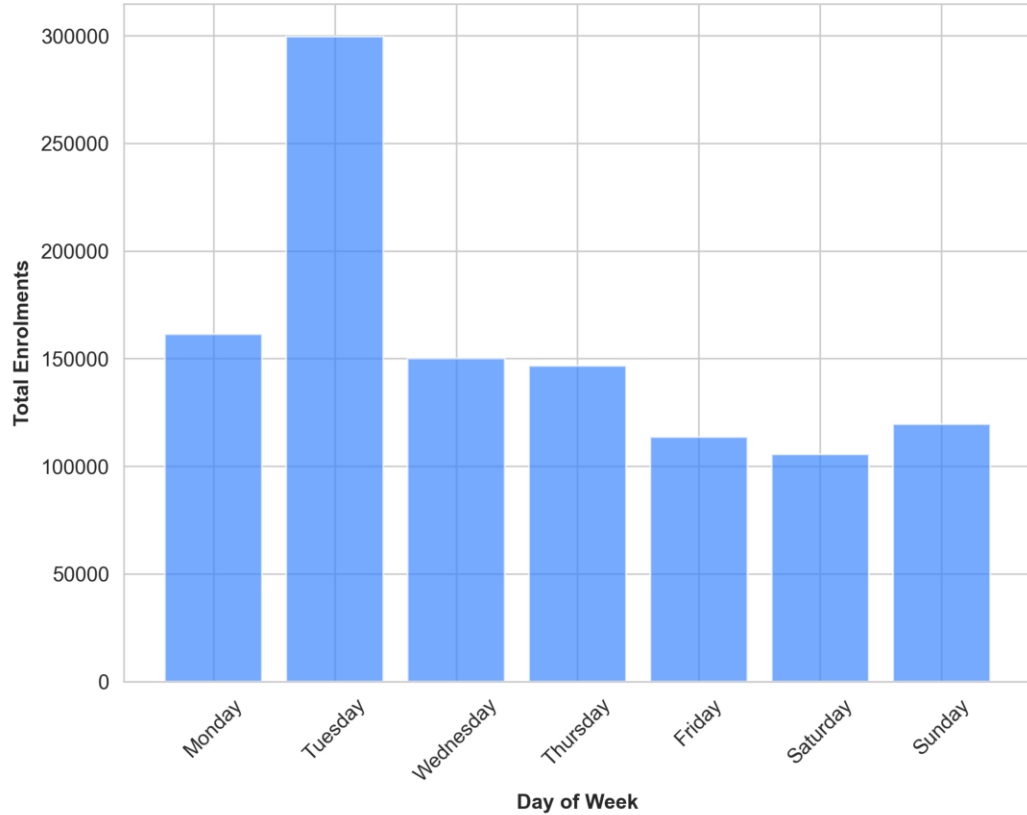
Enrolment Trend Over Time



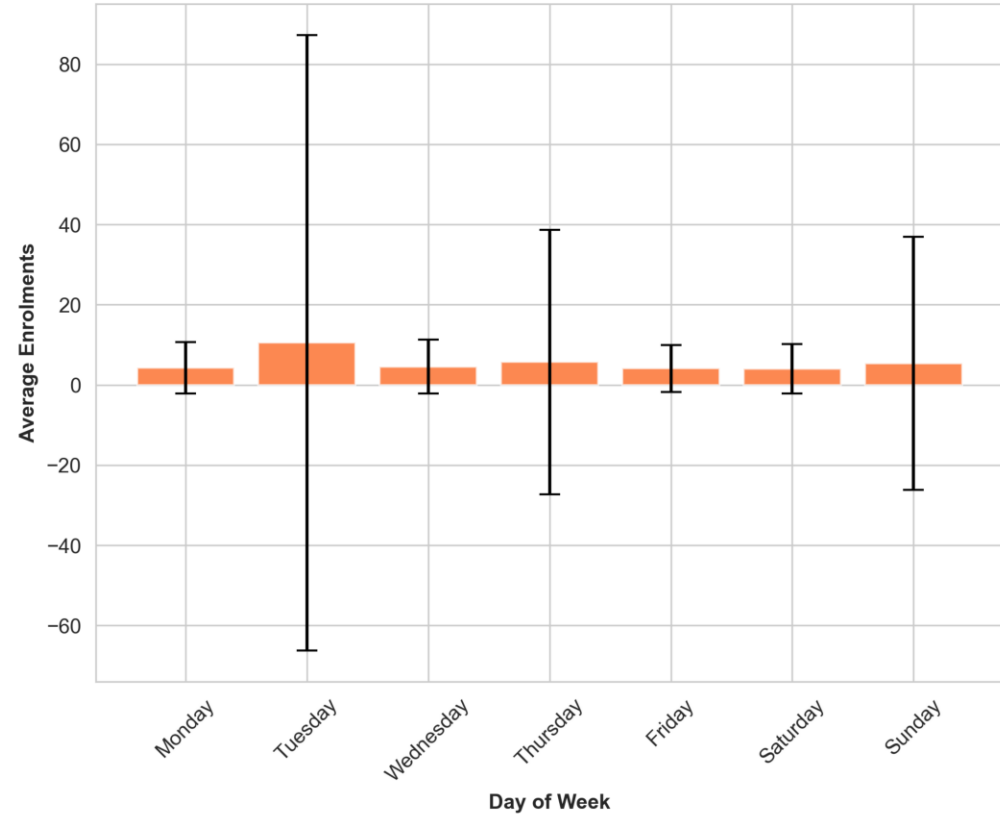
Enrolment Trends by Age Group



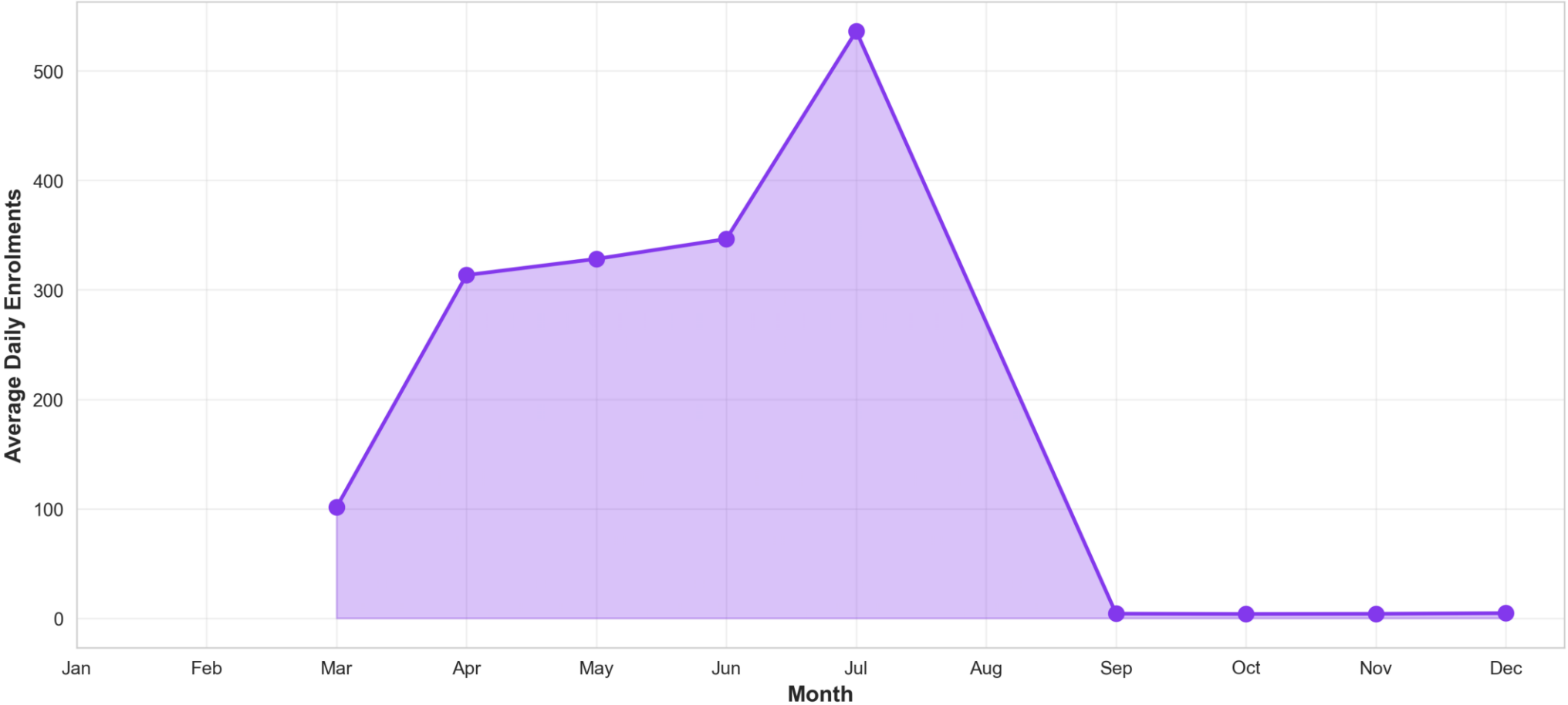
Total Enrolments by Day of Week



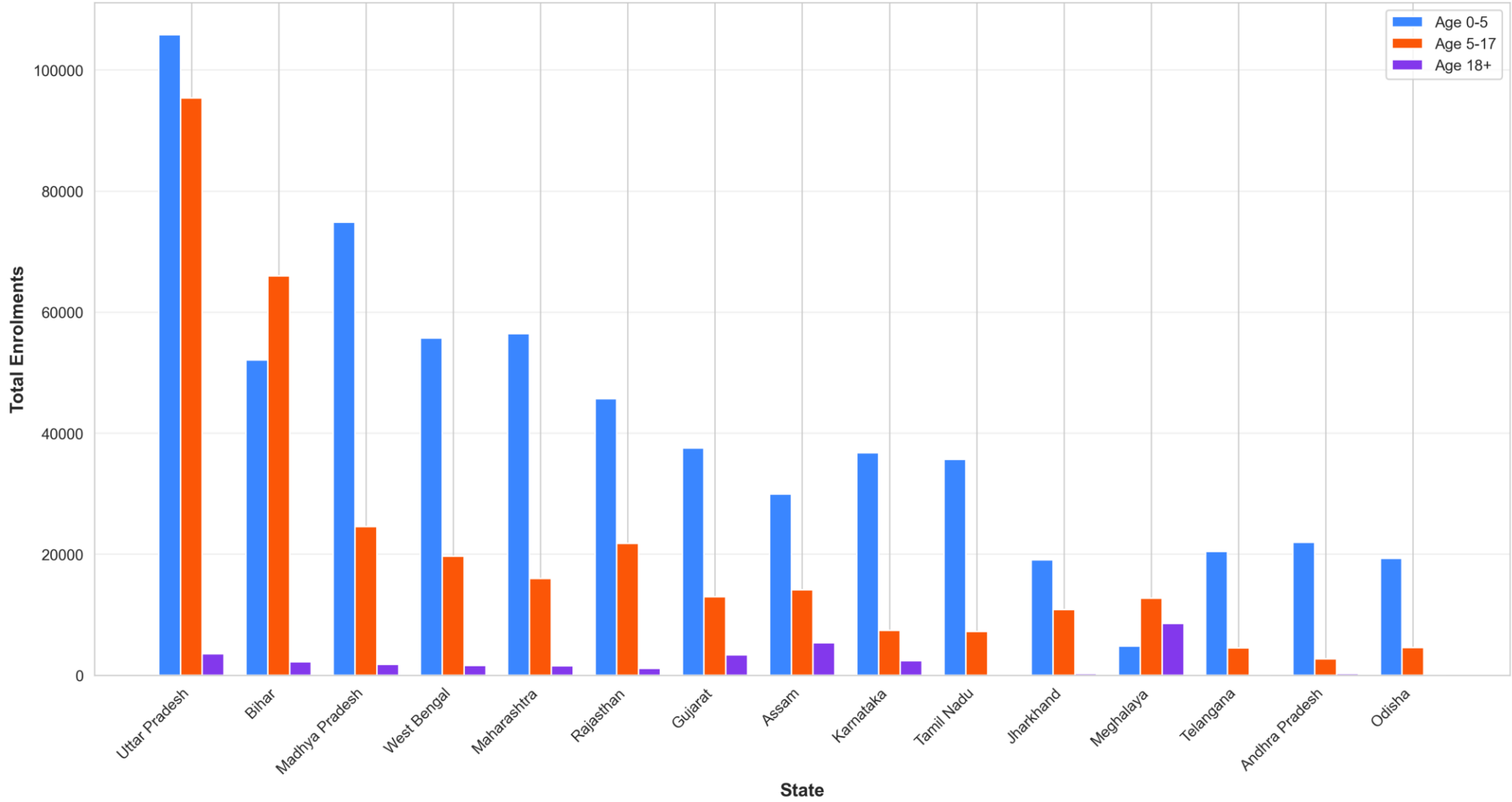
Average Daily Enrolments by Day of Week



Seasonal Pattern: Average Enrolments by Month



Top 15 States: Enrolments by Age Group



Top 5 States: Temporal Trends by Age Group

