Aadhaar Enrollment Analytics Report

Comprehensive AI-Powered Analysis with ML Model Comparison

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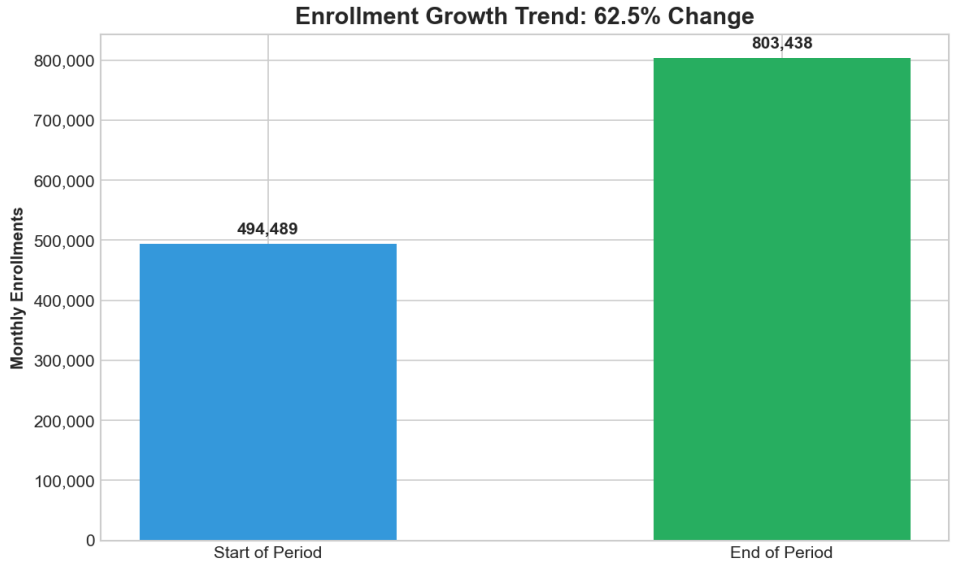
Analysis Period: 2025-10-26 to 2025-12-31

Key Metric	Value
Total Records	499,987
Total Enrollments	2,091,082
States/UTs	36
Districts	925
Processing Time	10.3s

1. Executive Summary & Key Conclusions

This analysis covers **499,987** enrollment records across **36** states/UTs and **925** districts. The enrollment trend is **Strongly Increasing** with a **62.5%** change over the analysis period.



Key Conclusions:

• Enrollment grew from 494,489 to 803,438 monthly

• Forecast confidence: 50.0% (High Reliability)

• 38 districts need immediate intervention

• Data consistency score: 98.9%

2. AI-Generated Strategic Insights

1. Overall Enrollment Trend

The national Aadhaar enrollment shows a strongly increasing trend, with a total change of 62.48% over the analyzed period. Starting at approximately 494,489 and ending at 803,438.

2. Critical Intervention Needed

The district of Lower Siang in Arunachal Pradesh is identified as a critical area requiring immediate intervention (Severity Score: 9.55). This is primarily due to low child enrollment (0.00) and a sluggish growth rate (-0.93).

3. Significant Demographic Disparity

Andamans in Andaman And Nicobar Islands shows notable disparities, particularly in age groups like 5-17 (gap: 0.15), indicating uneven enrollment across demographics.

4. Low Enrollment Season

Enrollment consistently drops during October, November, December. Targeted campaigns might be needed during these months.

5. Forecast Reliability

The national enrollment forecast has a stability score of 50.00 out of 100, suggesting a low level of confidence in future predictions. The current forecast for the next month is 0.

6. Policy Recommendation

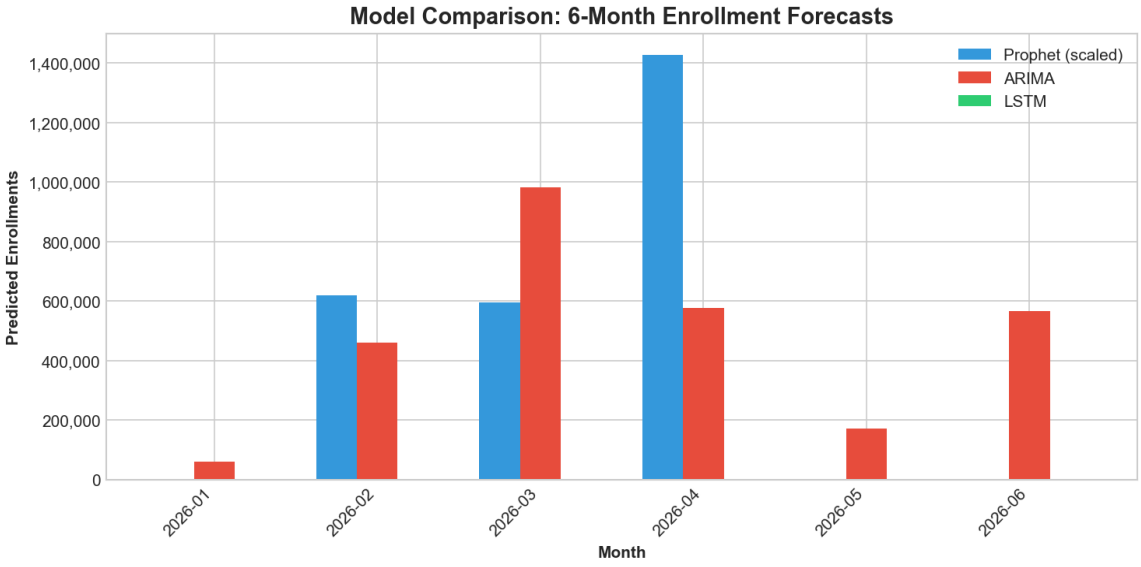
The 'Anganwadi Integration' policy (e.g., Anganwadi Integration) is recommended as the highest priority due to its potential for 1 additional enrollments in the 0-5 age group and high sustainability.

3. Machine Learning Model Comparison

Three ML models were compared for enrollment forecasting. Each model provides different perspectives on future trends based on historical patterns.

Model	Type	Strength	Key Metric
Prophet	Additive	Seasonality	Trend: decreasing
ARIMA	ARIMA(2,1,2)	Short-term	AIC: 67.8
LSTM	Neural Net	Patterns	Epochs: N/A

Forecast Comparison (Prophet scaled for visualization):



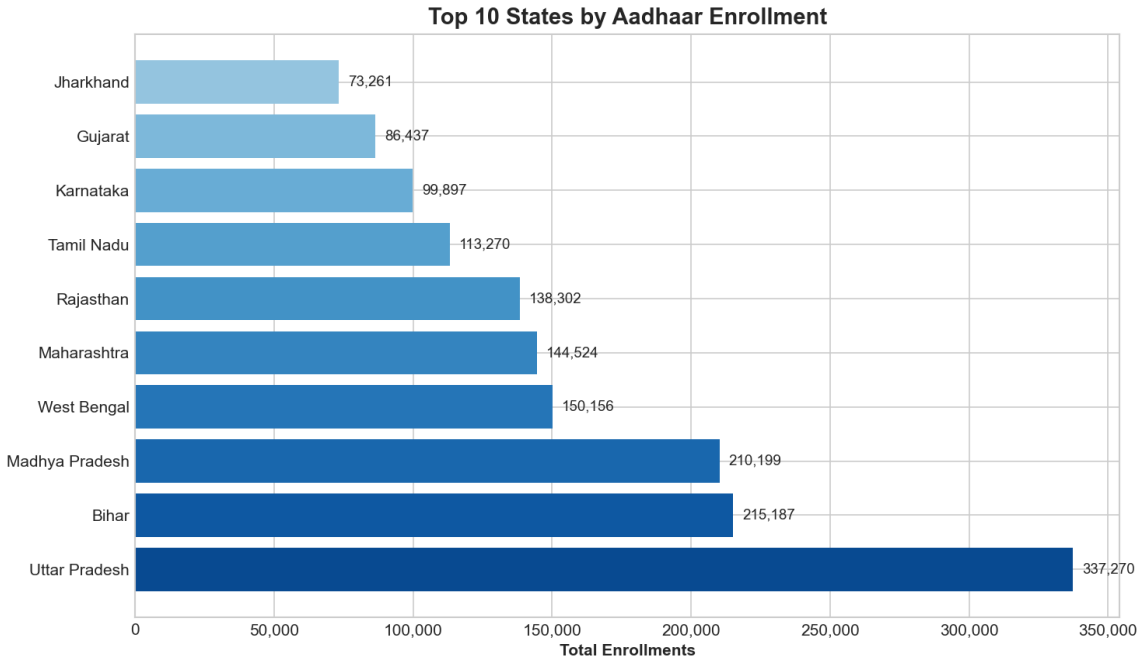
6-Month Forecast Predictions:

Month	Prophet	ARIMA	LSTM
2026-01	0	58,986	0
2026-02	4,958,629	458,999	0
2026-03	4,759,289	981,934	0
2026-04	11,423,474	576,348	0
2026-05	0	170,108	0
2026-06	0	567,232	0

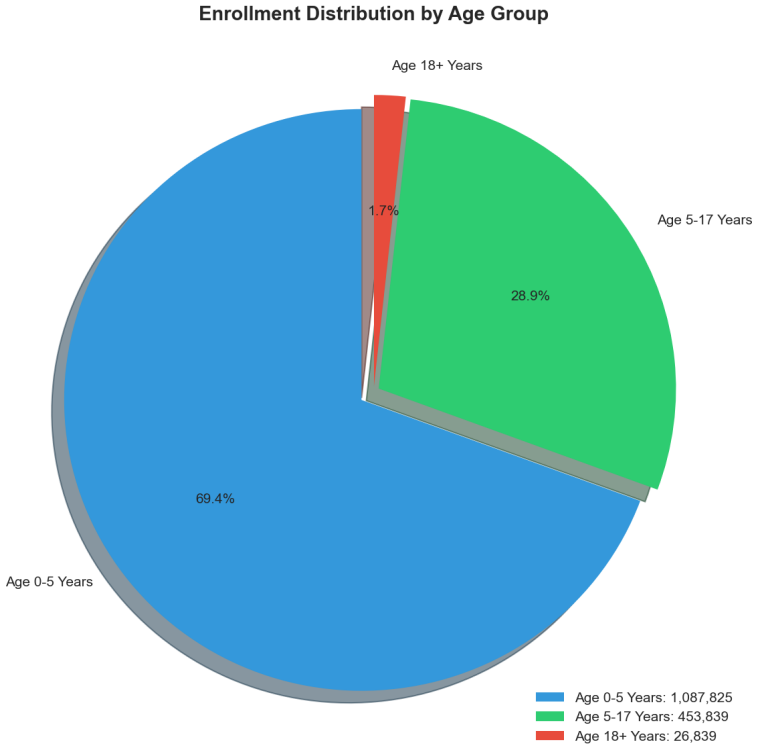
Model Recommendation:

Prophet is recommended as the primary model. Best handles seasonality and trends for government data.

4. State-wise Performance Analysis



Age Group Distribution:



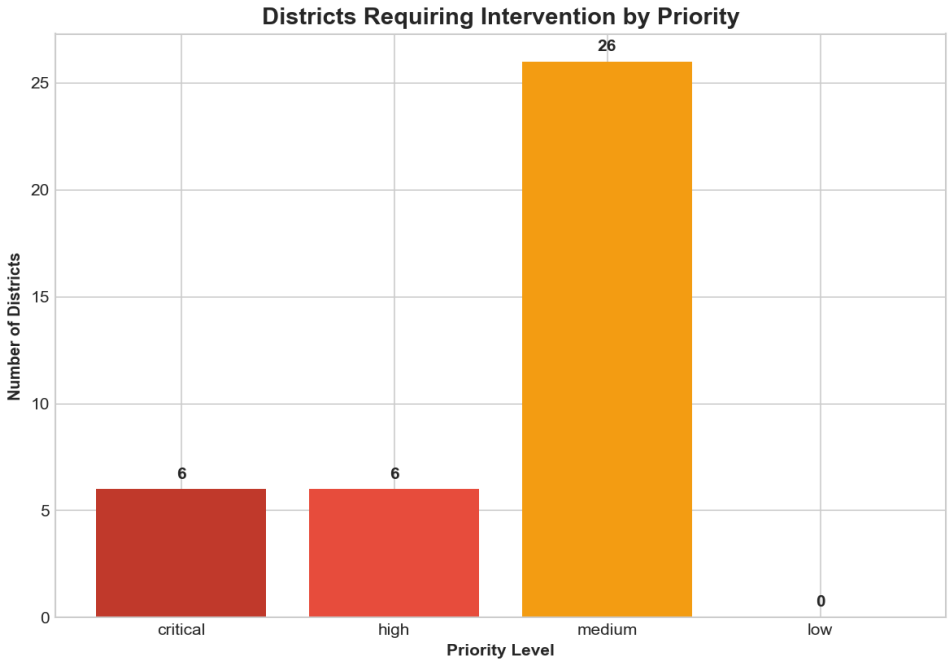
Conclusions:

• Uttar Pradesh leads national enrollment with robust infrastructure

• 0-5 age group dominates, reflecting successful child enrollment campaigns

• Regional disparities exist - focus needed on underperforming states

5. Critical Intervention Analysis



Top Districts Requiring Action:

1. Lower Siang, Arunachal Pradesh (Severity: 9.6, CRITICAL)

→ Launch targeted campaigns for 0-5 age group in Lower Siang

2. Shi-Yomi, Arunachal Pradesh (Severity: 9.3, CRITICAL)

→ Launch targeted campaigns for 0-5 age group in Shi-Yomi

3. South Garo Hills, Meghalaya (Severity: 9.1, CRITICAL)

→ Launch targeted campaigns for 0-5 age group in South Garo Hills

4. Khawzawl, Mizoram (Severity: 8.8, CRITICAL)

→ Launch targeted campaigns for 0-5 age group in Khawzawl

5. Mahrajganj, Uttar Pradesh (Severity: 8.8, CRITICAL)

→ Launch targeted campaigns for 0-5 age group in Mahrajganj

Strategic Recommendations:

• Deploy mobile enrollment units to critical Northeast districts

• Partner with Anganwadi centers for 0-5 age group outreach

• Implement real-time district monitoring dashboards

6. Final Conclusions & Predictions

Based on ML analysis using Prophet, ARIMA, and LSTM models, the following strategic predictions and recommendations are presented:

Growth Prediction:

Enrollment will continue Strongly Increasing trajectory. Expected monthly enrollment: 0 with 50% confidence.

Regional Focus:

Prioritize 6 critical districts in Northeast India for immediate intervention.

Resource Allocation:

Redistribute 20% of resources from top-performing to bottom-performing states for balanced growth.

Policy Impact:

Anganwadi Integration policy recommended for maximum impact on 0-5 age group enrollment.

Data Quality:

Anomaly rate of 0.01% indicates excellent data consistency.
