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Data Research for Inequality in Student Test Insights
~ Executive Summary ~

States

All ⌄

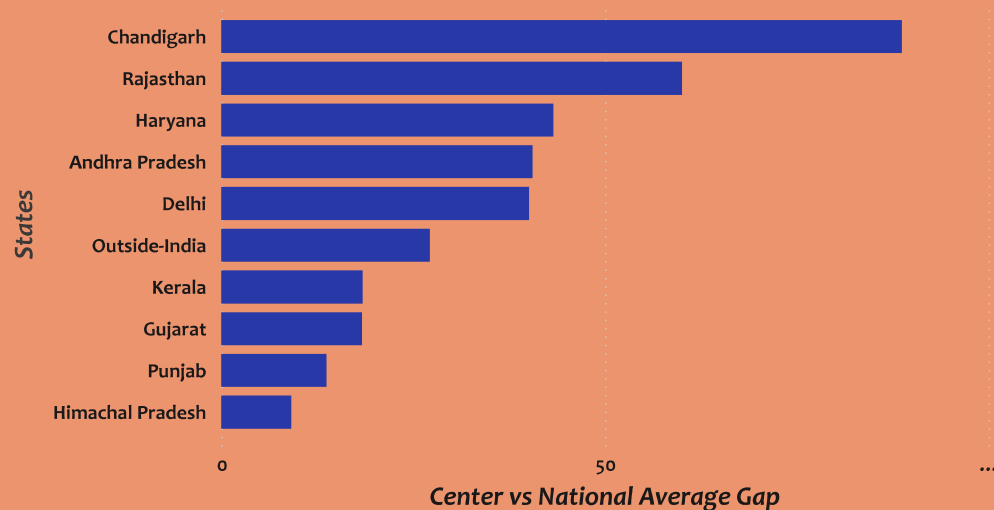**National Average Marks**

217.16

Total Students
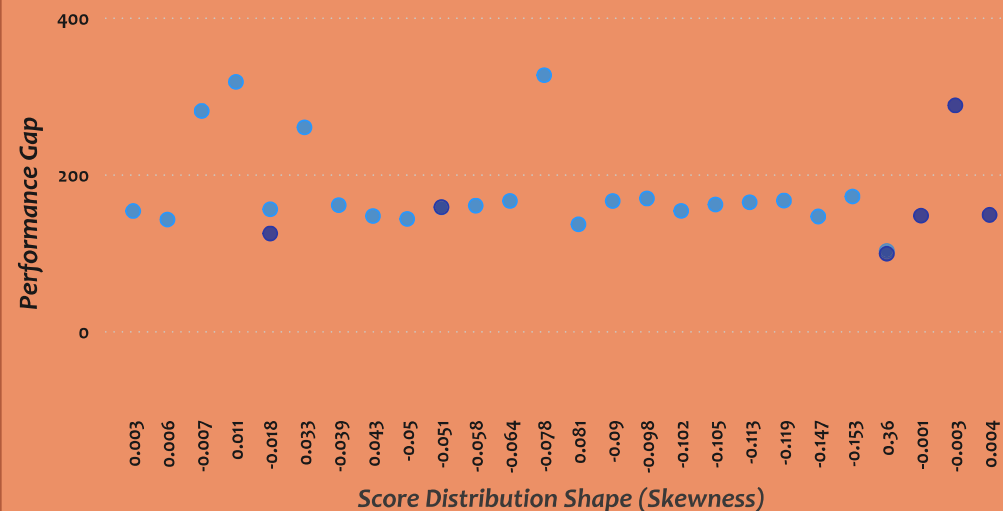
2M

Flagged Centers

72

Top 10 States with the highest average performance gap (biggest regional inequality)

States (y-axis, top to bottom): Chandigarh, Rajasthan, Haryana, Andhra Pradesh, Delhi, Outside-India, Kerala, Gujarat, Punjab, Himachal Pradesh

X-axis: Center vs National Average Gap (0 ... 50 ...)

Performance vs. Score Distribution Anomaly

Anomaly Flag ● Anomalous Center ● Normal Center

Y-axis: Performance Gap (0, 200, 400)

X-axis: Score Distribution Shape (Skewness)
0.003, 0.006, -0.007, 0.011, -0.018, 0.033, -0.039, 0.043, -0.05, -0.051, -0.058, -0.064, -0.078, 0.081, -0.09, -0.098, -0.102, -0.105, -0.113, -0.119, -0.147, -0.153, 0.36, -0.001, -0.003, 0.004
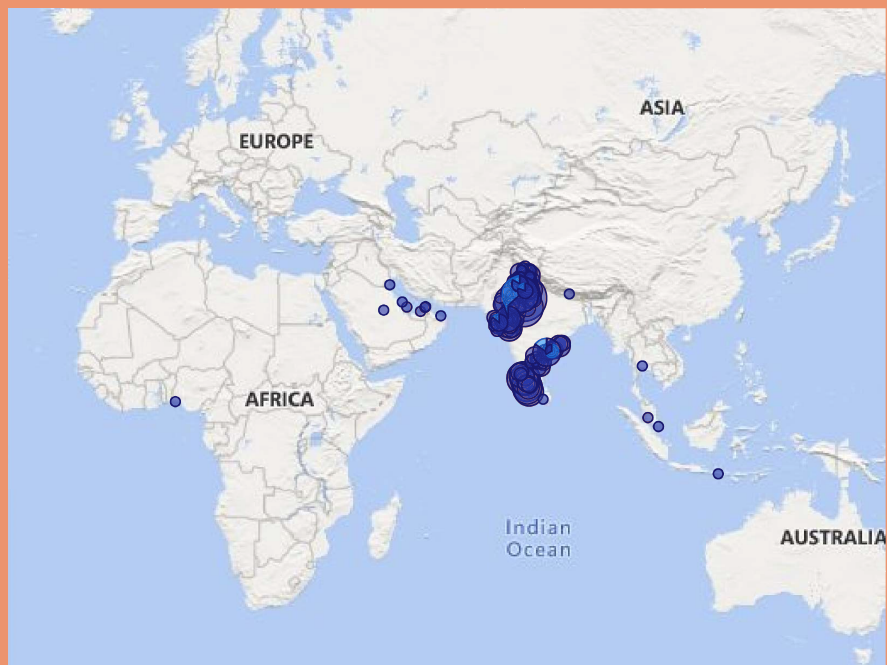
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~ Geospatial & Ultra-High Score Analysis ~
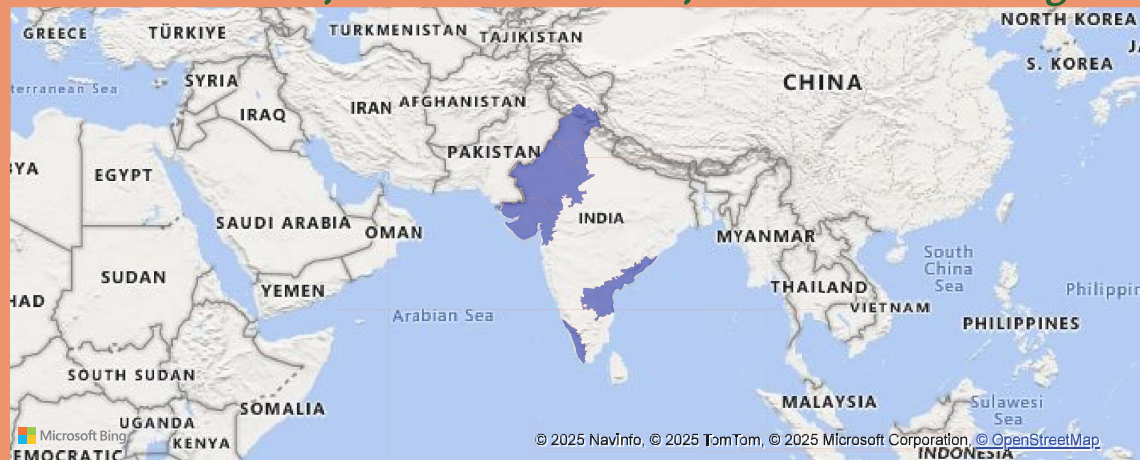
Geographic Distribution of flagged Anomalous Centers

Anomaly Flag ● Anomalous Center ● Normal Center

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State-wise Performance Deviation from National Average

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Cities with the Highest Concentration of Ultra-High Scorers (> 700 Marks)

Cities: Delhi/New Delhi, Jaipur, Mumbai
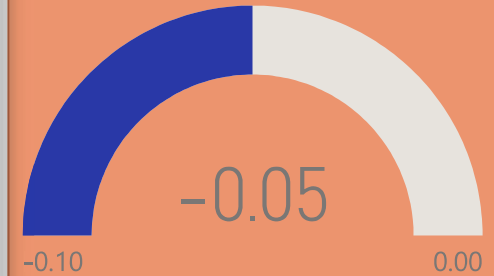
0.00   0.05   0.10   0.15

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Data Research for Inequality in Student Test Insights
~ ML Anomaly Validation ~

Top Centers Flagged by ML Anomaly Detection

state	city	center_name	Anomaly_Score ▲	Center_Skewness	Ultra_High_Score_Ratio	Center_v_National_Gap
Madhya Pradesh	Chhindwara	Delhi Public School	-0.05	3.102	0.00	-118.26
Jharkhand	Garhwa	B.P. Dav Public School	-0.05	2.58	0.00	-134.75
Jharkhand	Dumka	Eklavya Model Residential School Kathijoria Dumka	-0.04	2.772	0.00	-109.16
Assam	Dhubri	Alamganj Rangamati College	-0.04	4.151	0.00	-136.30
Rajasthan	Sikar	Aryan Pg College	-0.04	0.011	0.01	155.55
Tamil Nadu	Namakkal	The Navodaya Academy Senior Secondary School	-0.04	-0.189	0.01	162.45
Rajasthan	Sikar	Vidya Bharati Public School	-0.04	-0.078	0.01	158.23

Minimum Anomaly Score

-0.05

-0.10   0.00

Anomaly Score Breakpoint and Threshold

Anomaly Score values by Center:
- Delhi Public School: -0.049
- B.P. Dav Public School: -0.047
- Eklavya Model Residential School Kath...: -0.043
- Aryan Pg College: -0.037
- The Navodaya Academy Senior Seco...: -0.037
- Vidya Bharati Public School: -0.036
- Bharat Bharti Vidyalaya: -0.034
- Tagore P.G. College: -0.033
- The Spectrum Academy: -0.033
- Satyam Public Sr. Sec. School: -0.033
- Mansarovar The School: -0.032
- Saraswati Public School: -0.031
- Yash Public Sr. Sec. School: -0.030

Center Names