

**NAT-LYTICS: A PREDICTIVE ANALYTICS MODEL FOR ESTIMATING GRADE 6 LEARNERS'  
NATIONAL ACHIEVEMENT TEST (NAT) PROFICIENCY**  
**(DASHBOARD CLASSIFICATION AND EXAMPLE)**

by

OIGA, JAN IRIS O.

BENITO, GEORGE CHRISTIAN V.

FERNANDEZ, CHARLYN MAE T.

MALUBAG, JOHN PAUL B.

RENTI CRUZ, DANIEL JOHN T.

## Descriptive Dashboard

This Descriptive Dashboard provides a snapshot of historical performance, summarizing the "raw truth" of past NAT results across Urdaneta City. Its purpose is to inform stakeholders of the current status and identify the most immediate performance gaps at the district and school levels.

### NAT Performance Prediction System

Predictive Analytics for National Achievement Test

[Analytics Dashboard](#)

[Learner Profiles](#)

[Model Validation](#)

#### Descriptive Analytics

Current NAT performance across Urdaneta City schools

Total Examinees  
597



Across 61 schools

Overall MPS  
68.12



+8.44 vs National

Proficient & Above  
43.55%



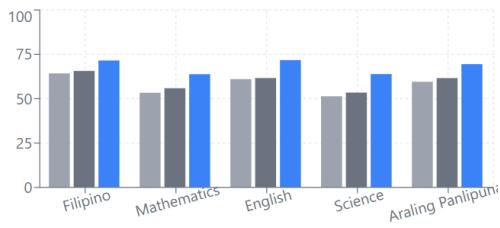
260 students

Schools Tracked  
61



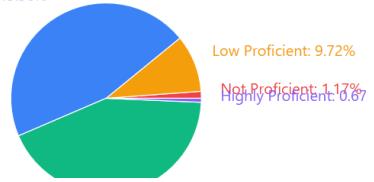
46 Public, 15 Private

#### Performance Comparison: Urdaneta vs Region vs National



#### Overall Proficiency Distribution

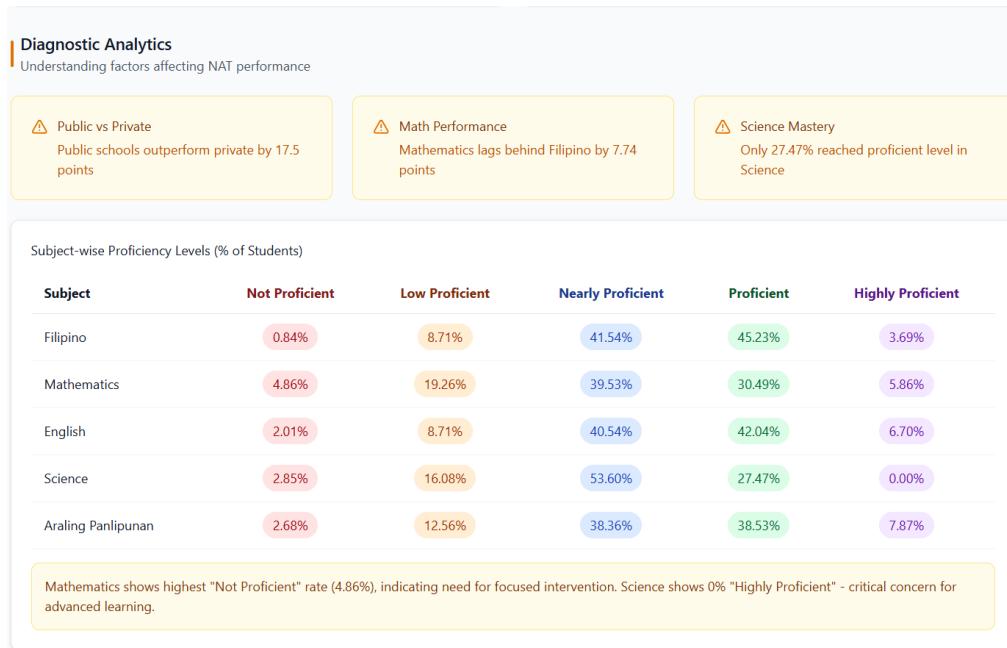
Nearly Proficient: 45.56%



**Example Insight:** Identifying that Urdaneta City currently outperforms national averages with an MPS of **68.12**.

## Diagnostic Dashboard

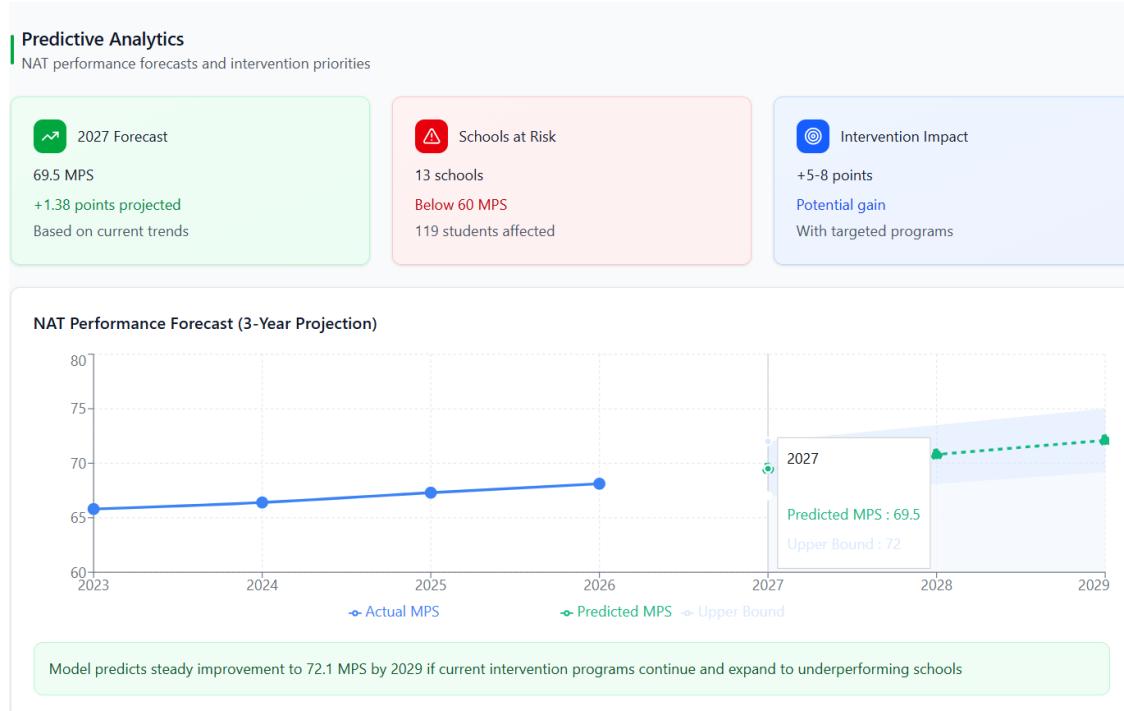
The Diagnostic Dashboard deep-dives into the data to uncover the relationships and root causes behind the descriptive numbers. It transitions from observation to investigation. This dashboard pinpoints specific vulnerabilities, such as identifying that Mathematics has the highest "Not Proficient" rate (4.86%) or that private schools lag significantly behind public institutions.



**Example Insight:** Determining that **Science** mastery is a critical concern because **0%** of students reached the "Highly Proficient" level.

## Predictive Dashboard

The Predictive Dashboard represents the "intelligence" of the NAT-LYTICS tool, using the factors identified in earlier stages to forecast future outcomes. It provides a forward-looking roadmap that allows for proactive intervention rather than reactive remediation.



**Example Insight:** Forecasting that the MPS will rise to **72.1 by 2029** if targeted programs, like the **Mathematics Intensive Program**, are successfully implemented in high-risk schools.