

With The GDR Insight Multiplier, Global Data Resources ensures that partners and advertisers can access high-quality, data-driven consumer insights, even in Survey-Poor Countries.

MULTI-PURPOSE CLEANER

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Global Data Resources

MULTI-PURPOSE

CLEANER

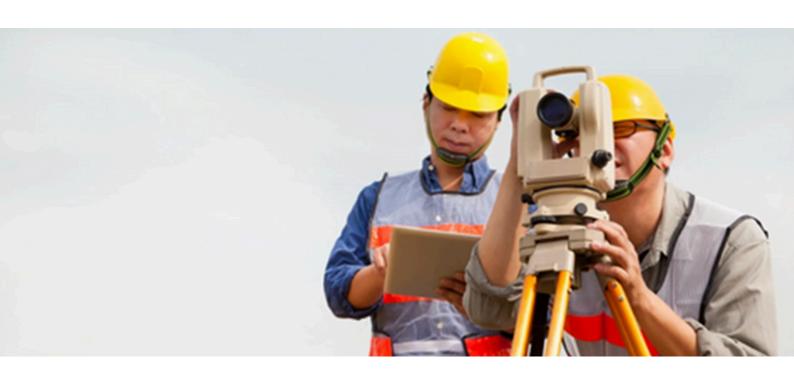
Offered & Developed By

GLOBAL DATA RESOURCES

THE GDR INSIGHT MULTIPLIER



THE FUTURE OF DATA-DRIVEN INSIGHTS



EXPANDING CONSUMER INSIGHTS IN SURVEY-POOR COUNTRIES

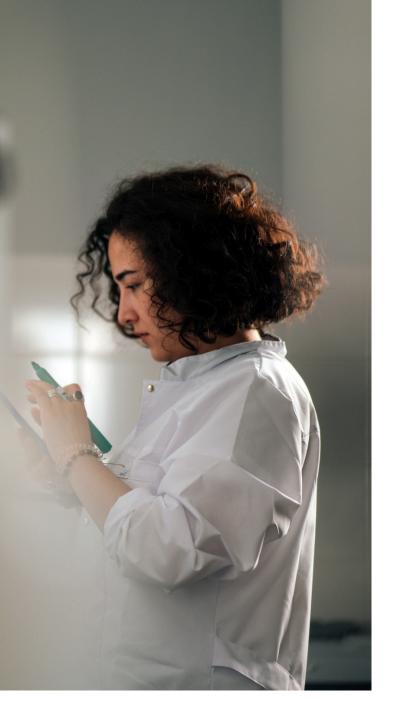
OVERVIEW

At Global Data Resources, we work with **high-quality survey providers** whenever possible to ensure the most accurate and granular consumer insights.

However, in survey-poor countries, where survey data is unavailable or of low quality, we use the GDR Insight Multiplier - **our Al-driven modelling system** - to reliably and at scale extrapolate insights.

The GDR Insight Multiplier expands surveybased insights into survey-poor markets by utilizing advanced machine learning, Bayesian modelling, and proprietary AI techniques.

At its core lies **The GDR InsightFusion Algorithm (IFA)**, our unique meta-model that intelligently integrates multiple predictions to **guarantee the highest degree** of accuracy and market alignment.





HOW IT WORKS

1. HIGH-QUALITY DATA INPUTS (CONSUMER CLASSIFICATION)

To ensure accuracy, we use **GDR's Consumer Classification (CC) data**, which is consistently available across all markets.

THIS INCLUDES

- **Demographics**: Age, household size, education level.
- **Economics**: Income, employment type, property ownership.
- **Geo-Segmentation**: Urban vs. rural, regional economic conditions.

In Survey-Rich Countries, we have direct survey-linked data connecting CC to consumer interests.

In Survey-Poor Countries, we apply The GDR Insight Multiplier to predict these interests.

2. TRAINING THE MODEL WHERE SURVEYS EXIST

Using survey-rich markets, we train three AI models to learn the relationship between CC data and consumer interests:

1) XGBOOST/CATBOOST (GRADIENT BOOSTING)

- **Finds complex interactions** between consumer traits and interests.
- **Strength**: High predictive accuracy with clear feature importance.

2) RANDOM FOREST (DECISION TREE ENSEMBLE)

- Averages multiple decision trees for robust predictions.
- **Strength**: Reduces overfitting and works well with structured tabular data.

3) NEURAL NETWORKS (DEEP LEARNING)

- Identifies **hidden patterns** in high-dimensional data.
- **Strength**: Best for detecting deep behavioural trends.



3. PREDICTING INTERESTS IN SURVEY-POOR COUNTRIES

Once the models are trained, we use them to **predict soft interests** in Survey-Poor Countries by applying insights from **similar** consumer classification segments.

PROBABILITY SCORES

Each model generates probability scores for different consumer interests (e.g., car brand preference, tech adoption, travel habits).

4. THE GDR INSIGHTFUSION ALGORITHM: PROPRIETARY AI FOR ACCURACY

At the heart of The GDR Insight Multiplier is The GDR InsightFusion Algorithm (IFA), our proprietary Al-driven meta-model that refines predictions for maximum accuracy.

WHY THE GDR INSIGHTFUSION ALGORITHM IS UNIQUE

- Proprietary Al methodology that intelligently combines multiple predictions.
- Adaptive weighting ensures the best balance across different models.
- Continuously improves over time with new data inputs.

HOW IT WORKS

STEP 1

The three AI models make separate predictions.

STEP 2

The GDR InsightFusion Algorithm blends their outputs using:

- Averaging: Simple mean of all predictions.
- **Weighted Voting**: Assigns more weight to the most accurate model.
- Stacking (Meta-Modeling): Uses a Logistic Regression layer to optimize prediction blending dynamically.

MOST ACCURATE REPRESENTATION

This ensures that the final insights are **the** most accurate representation of consumer behaviour, even without direct survey data.

5. BAYESIAN ADJUSTMENT FOR LOCAL MARKET DIFFERENCES





BAYESIAN ADJUSTMENT

To further refine our predictions, we apply Bayesian updating to incorporate **real-world sample market** data:

- Car brand registrations
 (government/industry reports).
- Google Trends & social media sentiment (regional interest signals).
- Third-party market research (e.g., Kantar, Nielsen, automotive reports).

This ensures that predictions reflect real-world variations **across different markets**.

6. INDEPENDENT VALIDATION WITH EXTERNAL DATA



INDEPENDENT VALIDATION

To verify accuracy, we compare predicted consumer interests against:

- Official car brand sales and registrations.
- Geo-spatial.
- Real-estate sales data.
- Market research and third-party reports.

If any discrepancies arise, we **recalibrate the model** to improve alignment.

FINAL OUTCOME



WHY THIS MODEL MATTERS

EXPANDS INSIGHTS GLOBALLY

Converts survey-driven learnings into predictive intelligence for new markets.

PRIVACY-SAFE

No personal tracking, only aggregated neighborhood-level insights.

PROPRIETARY AI

The GDR InsightFusion Algorithm ensures the most accurate and market-aligned predictions.

CONTINUOUSLY IMPROVES

Refines itself as new data sources become available.

Step

Method

Purpose

1. HIGH-QUALITY DATA INPUTS

Use Consumer Classification (CC) across all countries.

Establish a uniform foundation.

2. MODEL TRAINING

Train XGBoost/CatBoost, Random Forest, and Neural Networks in Survey-Rich Countries.

Learn the relationship between CC and soft interests.

3. PREDICTIONS IN SURVEY-POOR COUNTRIES Apply trained models to markets without survey data.

Generate probability scores.

4. THE GDR INSIGHT FUSION ALGORITHM

Proprietary Al-driven meta-model.

Optimally blends multiple predictions for maximum accuracy.

5. BAYESIAN ADJUSTMENT Reweight predictions using real-world data.

Ensure predictions reflect marketspecific conditions.

6. INDEPENDENT VALIDATION

Compare with car registrations, Google Trends, and market reports.

Verify model credibility.

THE FUTURE OF DATA-DRIVEN INSIGHTS

With The GDR Insight Multiplier, GDR ensures that partners and advertisers can access high-quality, data-driven consumer insights, even in **Survey-Poor Countries**.