

QIM Indian Indices Engine

Structural-Behavioural Mathematical Framework

- A deterministic engine that converts raw market data into **structural ranges**, **swing behaviour**, and **forward projections** for Nifty 50, Nifty Bank, and Sensex 30.
- **Version 3.0 — July 2026 QIM Framework — Independent Structural-Behavioural Interpretation**

Innovations

1. Deterministic Structural Modelling

- The engine converts raw OHLCV data into mathematically derived structural ranges — **Above, Upside, Below, and Downside** — without using indicators or heuristics.

2. Non-Indicator Swing Behaviour Logic

- QIM introduces a unique swing-behaviour model using **displacement, swing volume, and swing range** instead of oscillators like RSI or MACD.

3. Unified Multi-Index Framework

- A single mathematical engine processes **Nifty 50, Nifty Bank, and Sensex 30** using identical structural-behavioural logic — enabling consistent interpretation across India's major indices.

4. 36-Column Analytical Architecture

- The engine generates a complete analytical dataset including **polarity, differentiators, zones, and projection logic** — all derived from pure mathematical rules.

5. Zero-Bias Interpretation

- QIM eliminates discretionary judgement, sentiment, and subjective reading. Every output is deterministic: the same input always produces the same structural-behavioural interpretation.

6. Forward Projections Without Machine Learning

- Unlike predictive models, QIM produces **mathematical projections** based on structural displacement and behavioural transitions — no training, no tuning, no randomness.

7. Clean Automation Pipeline

- The engine automates ingestion, computation, formatting, and multi-sheet output — enabling repeatable, scalable index interpretation.

8. First Structural-Behavioural System for Indian Indices

- QIM establishes a new category of market analytics by combining structure + behaviour into a unified mathematical engine for India's major indices.

QIM Methodology Overview

QIM Structural-Behavioural Methodology

- The QIM Engine applies a deterministic mathematical process to convert raw OHLCV data into structured analytical outputs. It unifies **structural ranges**, **swing behaviour**, **displacement**, and **projection logic** into a single framework.

Core Principles

- **Deterministic computation** — same input → same output
- **Non-indicator logic** — no RSI, MACD, moving averages
- **Structure + behaviour** — dual-layer interpretation
- **Multi-index consistency** — Nifty 50, Nifty Bank, Sensex 30
- **Zero bias** — no sentiment, no discretionary reading

Structural Range Computation

How QIM Computes Structural Ranges

- The engine derives four structural boundaries — **Above, Upside, Below, and Downside** — using displacement-based mathematical logic applied to raw price data.

Key Components

- **Price displacement**
- **Range differentiation**
- **Directional neutrality**
- **Boundary stability across indices**
- **Mathematical, not predictive, computation**

Outcome

- A clean structural map that shows where the index is positioned relative to mathematically derived boundaries.

Swing Behaviour Interpretation

QIM Swing Behaviour Model

- Swing behaviour is interpreted using **swing volume**, **swing range**, and **displacement** — without oscillators or momentum indicators.

Key Behavioural Metrics

- **Volume displacement**
- **Range expansion / contraction**
- **Behavioural transitions**
- **Polarity shifts**
- **Differentiator logic**

Outcome

- A behavioural layer that explains *how* the index is moving, not just *where* it is.

Projection Logic Architecture

QIM Projection Logic

- Projections are generated using deterministic structural mathematics — not machine learning, not statistical forecasting. The engine computes **forward ranges** based on structural displacement and behavioural transitions.

Projection Components

- **Structural boundary displacement**
- **Behavioural momentum logic**
- **Directional neutrality**
- **Mathematical forward ranges**
- **Index-agnostic architecture**

Outcome

- Clear, rules-based projections that maintain consistency across Nifty 50, Nifty Bank, and Sensex 30.

Thank You

The QIM Engine represents a new category of structural-behavioural analytics for Indian markets — built on deterministic mathematics, zero bias, and unified multi-index logic.

A tribute to the brilliance of **Software Engineers** and **AI/ML Engineers**, whose work enables creators to transform complex analytical ideas into working engines.

For research, education, and independent interpretation.

QIM Framework qimframework.com

Founder's Note — Ashwin

The QIM Engine began as a simple idea: **Can market structure and behaviour be interpreted mathematically, without indicators or bias?**

Today, that idea has become a complete analytical engine — built through discipline, clarity, and a deep belief in deterministic logic.

This journey made me appreciate the brilliance of **Software Engineers** and **AI/ML Engineers**, whose work empowers creators like me to transform complex analytical concepts into working systems.

QIM is not a trading tool. It is a **structural-behavioural interpretation framework** — designed for research, education, and independent market understanding.

Thank you for being part of this journey.