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# Intelligent Pricing Engine for the BLR Market

Sayash Raaj IITM Fidelity Investments

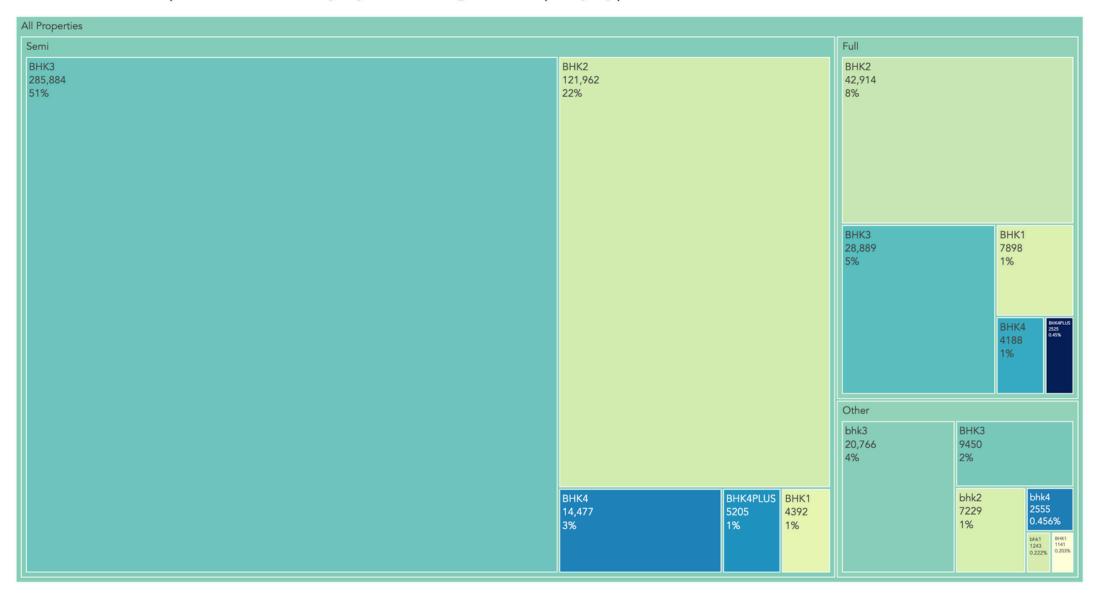
The Strategic

Landscape

#### Mapping the Market

- Volume: Over 50% of inventory is semi-furnished 2/3 BHKs- our core market.
- Value: Niche segments 2. like 4BHK+ contain the highest-priced assets.
- Strategy: Requires 3. efficiency for volume and precision for value.

Market Composition: Inventory by Furnishing and Property Type



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Price\_in\_Lakhs

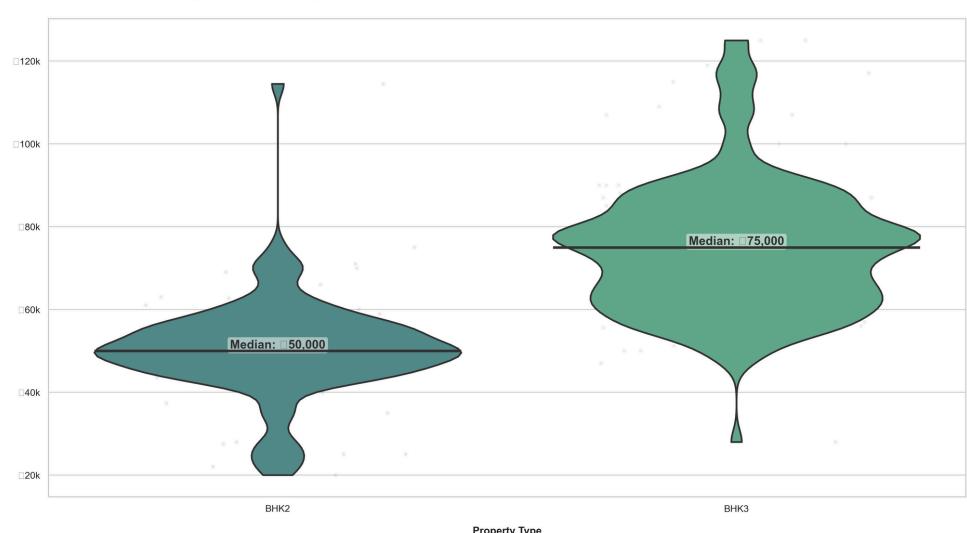
## The Strategic Landscape

# The Problem: Simple Averages Fail

- 3BHK > 50% medianpremium of 2BHK, yet price ranges overlap significantly.
- "BHK type" alone is an unreliable predictor of price.
- We need to deconstruct the specific features that drive value.

ISIGHT: BENGALURU RENTAL MARKET PRICING STRUCTURE





The Strategic

Landscape

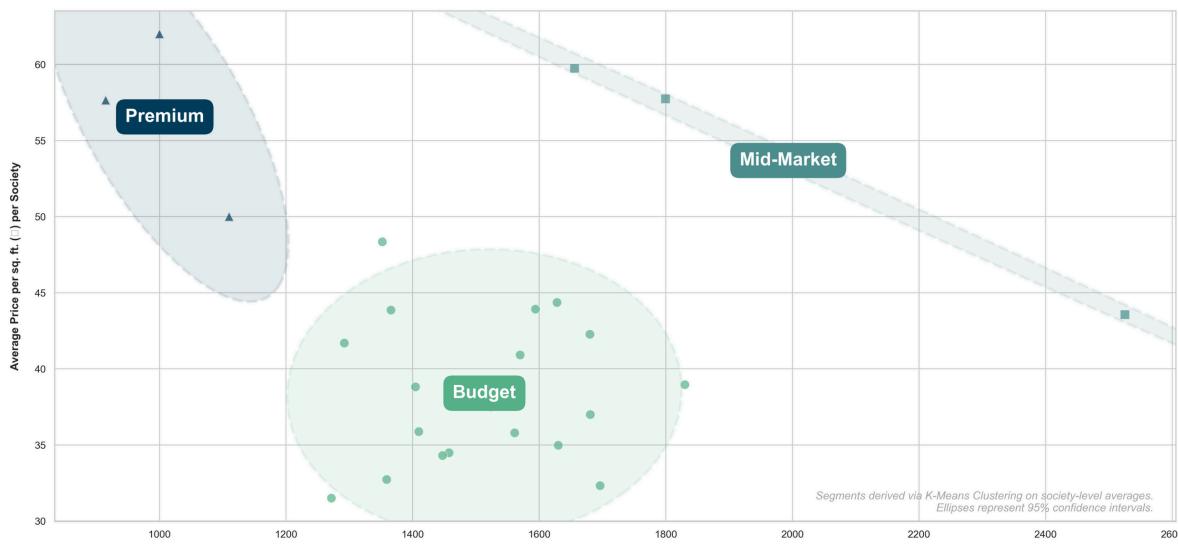
#### Data-Driven Segmentation

Framework

- Clustering societies'Premium', 'Mid-Market',
  'Budget' tiers.
- Crucial strategic step thatallows for tailored, segment-specific pricing models.
- This approach dramatically increases prediction accuracy.

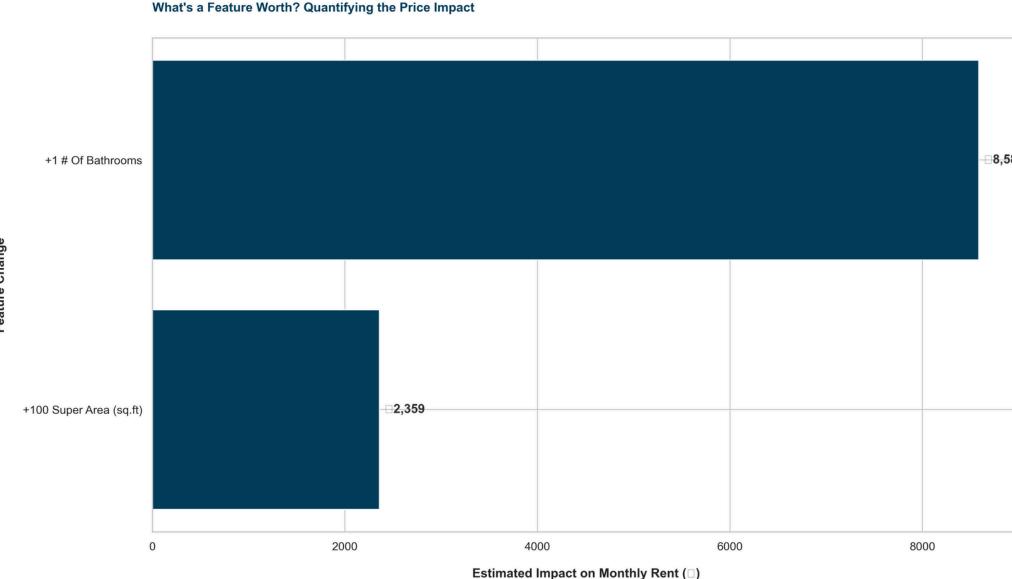
INSIGHT: DATA-DRIVEN COMPETITIVE LANDSCAPE





Average Super Area (sq. ft.) per Society

- OLS regression- Engine isolates exact financial impacts of key features.
- Example: An extra bathroom adds ~₹8,585/month; 100 sq. ft. adds ~₹2,359.
- Trust: statistical proof: highR-squared, significantp-values.

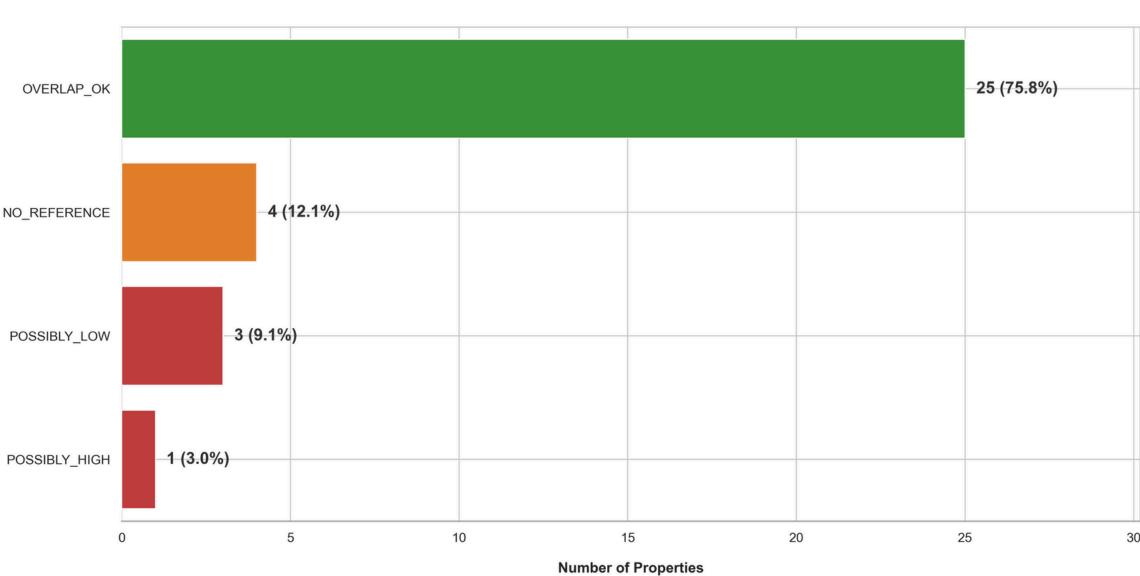


### The Engine's Failsafe: Hierarchical Logic

INSIGHT: MODEL CONFIDENCE & DATA QUALITY

~76% of Price Estimations Pass Validation

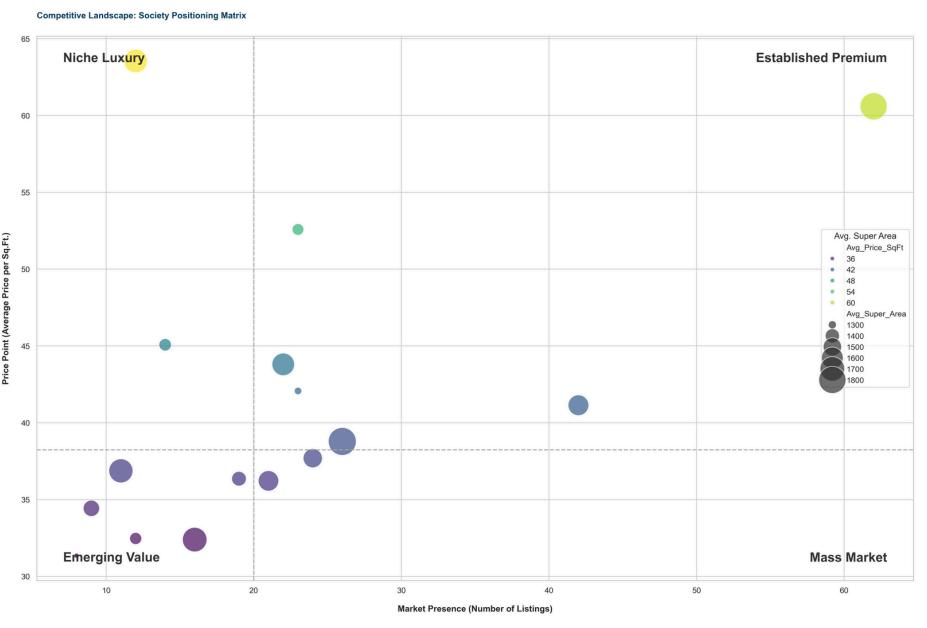
- The engine validates ~76% of its own predictions.
- For the rest, our hierarchical logic acts as a crucial failsafe.
- 3. segment averages, ensuring every price is reliable and defensible.



## The Engine in Action

## A Real-Time Competitive Matrix Competitive Landscape: Society

- Auto-map the competitivelandscape- marketpresence, price point.
- 2. Premium' leaders vs. 'Niche Luxury' players.
- This provides an invaluable strategic map for sales, acquisitions, partnerships.

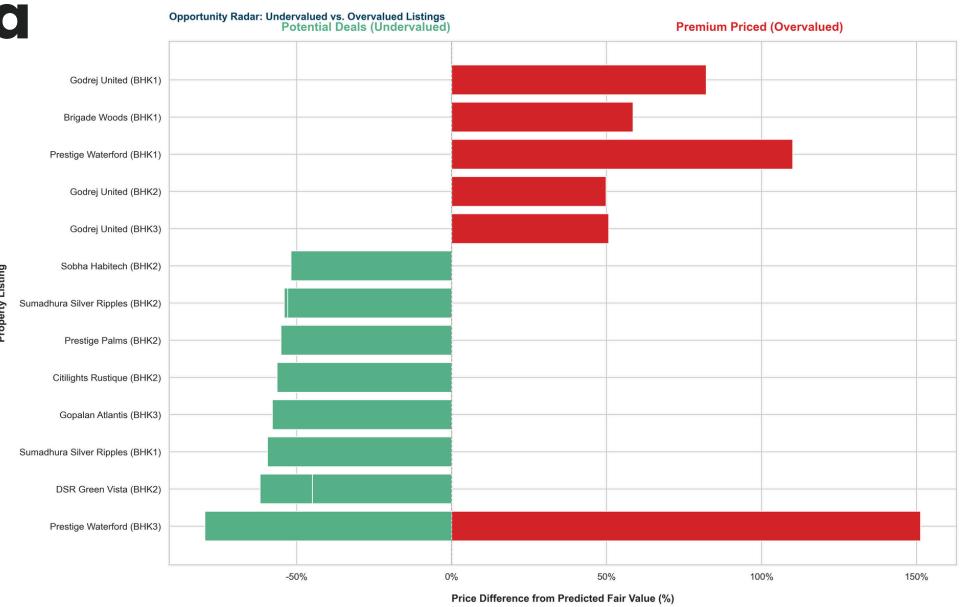


#### The Engine in

**Action** 

# The Ultimate Payoff: Finding Market Alpha

- Engine's core: systematically identify market inefficiencies, or 'alpha'.
- Green bars = Undervalued assets. Immediate, data-driven opportunities.
- Red bars = Overvalued
  listings. Critical intelligence
  for our negotiators.

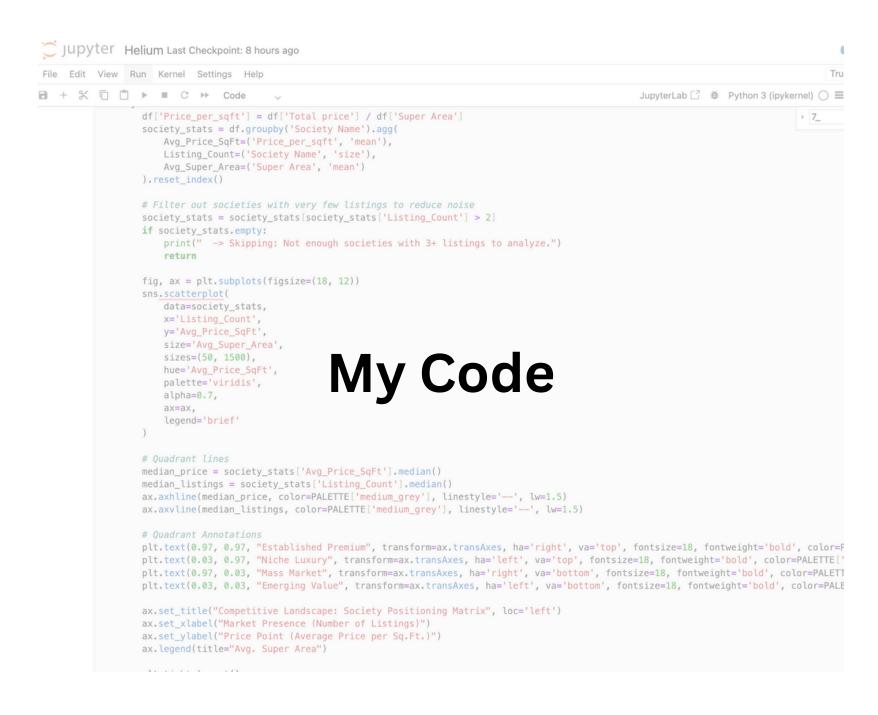


Service

## The Engine in Action

# My Quantitative Advantage

- Strategic Insight: Replaces anecdotal knowledge with a quantitative market view.
- Defensible Accuracy:statistical models, resilient logic to trust.
- Actionable Alpha: Translates accuracy to real-time tools-find undervalued assets, drive revenue.



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Sayash Raaj IITM **Fidelity Investments** 

Society Name	внк	Size (sq.ft)	Estimation Level	Range Starting	Range Ending	Actual Min Price	Actual Max Price	Sanity Check
Brigade Cosmopolis	BHK2	1329	Society	₹35,400	₹56,100	₹34,000	₹71,000	OVERLAP_OK
Brigade Cosmopolis	внк3	1736	Society	₹73,200	₹74,900	₹68,000	₹90,000	OVERLAP_OK
Brigade Woods	BHK2	1329	Society	₹61,500	₹68,300	₹55,500	₹70,800	OVERLAP_OK
Brigade Woods	ВНК3	1808	Society	₹72,500	₹82,200	₹69,000	₹82,500	OVERLAP_OK
Casa Gopalan	BHK2	1446	Society	₹45,600	₹48,500	₹45,000	₹54,000	OVERLAP_OK
Casa Gopalan	внк3	1630	Market Segment	₹54,100	₹69,900	₹50,000	₹50,000	POSSIBLY_HIGH
Citilights Rustique	BHK2	1371	Society	₹45,000	₹48,000	₹23,000	₹49,000	OVERLAP_OK
Citilights Rustique	внк3	1805	Society	₹60,000	₹62,900	₹50,000	₹65,000	OVERLAP_OK
Dsr Green Vista	BHK2	1277	Society	₹41,100	₹43,700	₹20,000	₹48,500	OVERLAP_OK
Dsr Green Vista	внк3	1508	Society	₹51,600	₹51,800	₹51,200	₹54,500	OVERLAP_OK
Godrej United	BHK2	1032	Global	₹48,900	₹58,700	₹75,000	₹75,000	POSSIBLY_LOW
Godrej United	внк3	2030	Society	₹122,900	₹131,700	₹80,324	₹130,000	OVERLAP_OK
Gopalan Atlantis	BHK2	1222	Society	₹44,700	₹49,900	₹39,910	₹50,000	OVERLAP_OK
Gopalan Atlantis	внк3	1766	Society	₹61,100	₹66,100	₹28,000	₹68,000	OVERLAP_OK
Mahaveer Tranquil	BHK2	1212	Society	₹42,100	₹48,300	₹43,500	₹53,000	OVERLAP_OK
Mahaveer Tranquil	внк3	1680	Society	₹52,800	₹64,600	₹53,500	₹80,000	OVERLAP_OK
Prestige Boulevard	BHK2	1166	Society	₹47,600	₹51,200	₹49,780	₹57,000	OVERLAP_OK
Prestige Boulevard	внк3	1641	Society	₹63,100	₹66,100	₹56,320	₹72,000	OVERLAP_OK
Prestige Palms	BHK2	1352	Society	₹45,700	₹52,800	₹22,000	₹57,000	OVERLAP_OK
Prestige Palms	внк3	1854	Market Segment	₹54,100	₹69,900	₹58,300	₹62,462	OVERLAP_OK
Prestige Waterford	BHK2	2027	Global	₹48,900	₹58,700	₹114,500	₹114,500	POSSIBLY_LOW
Prestige Waterford	внк3	1879	Society	₹89,200	₹95,900	₹77,000	₹950,000	OVERLAP_OK
Sobha Dream Acres	BHK2	1329	Predictive Model (Imputed)	₹46,000	₹62,300	N/A	N/A	NO_REFERENCE
Sobha Dream Acres	внк3	1835	Predictive Model (Imputed)	₹59,800	₹81,100	N/A	N/A	NO_REFERENCE
Sobha Habitech	BHK2	1417	Society	₹51,000	₹57,600	₹28,000	₹62,700	OVERLAP_OK
Sobha Habitech	внк3	1936	Society	₹76,200	₹79,200	₹65,000	₹91,500	OVERLAP_OK
Sobha Rose	BHK2	1329	Market Segment	₹49,300	₹57,000	N/A	N/A	NO_REFERENCE
Sobha Rose	внк3	1707	Society	₹52,400	₹79,900	₹47,000	₹86,300	OVERLAP_OK
Sobha Windsor	внк3	1835	Predictive Model (Imputed)	₹59,800	₹81,100	N/A	N/A	NO_REFERENCE
Sumadhura Silver Ripples	BHK2	1298	Society	₹54,700	₹56,000	₹25,000	₹60,300	OVERLAP_OK
Sumadhura Silver Ripples	внк3	1858	Society	₹70,700	₹75,000	₹65,000	₹87,000	OVERLAP_OK
Sumadhura Soham	BHK2	1202	Society	₹46,400	₹52,400	₹45,000	₹60,032	OVERLAP_OK
Sumadhura Soham	внк3	1578	Society	₹55,500	₹57,000	₹57,500	₹63,000	POSSIBLY_LOW