

# OPTIMIZING REVENUE LEAKAGE & PROFITABILITY IN THE HOSPITALITY SECTOR

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## Objective

To identify operational inefficiencies, revenue leakages, and demand trends within the hotel group using Power BI and booking-level data, and to recommend actionable strategies that improve revenue realization and profitability.

# **Brief Summary**

This project analyzes over 135,000 hotel bookings across multiple cities, room categories, and platforms. Through KPIs like Total Revenue, Occupancy Rate, Cancellation Rate, and RevPAR, we uncovered issues like high cancellations, underutilized capacity, and uneven platform performance. The final report proposes 5 strategic recommendations backed by data visuals, with estimated financial gains of ₹240–₹260 million annually and a payback period of under 7 days.

## **Key KPIs**

Total Revenue
₹1.71bn

Rooms Sold

**₹ 12.7**K

Occupancy Rate (%)

57.9%

70.1%

**₹7.35**K

Avg Length of Stay

Cancellation Rate (%)

24.83%

Revenue Lost to Cancellations

₹497.96M

# Reduce Revenue Leakage from Cancellations

Cancellation Rate (%) 24.83% Revenue Lost to Cancellations ₹497.96M

## Insight:

Nearly 1 in 4 bookings get cancelled → ₹497M lost Some platforms like makeyourtrip have high cancellation volumes.

### Recommendation:

- Introducing stricter cancellation policies and incentivizing prepayments directly targets the biggest source of revenue leakage.
- Reducing cancellations even by 5% recovers ~₹85M
   a significant gain without needing to increase customer volume or pricing.
- It's a low-cost, policy-based fix that protects future revenue.

# Boost Occupancy in Underperforming Hotels



## Insight:

- Overall occupancy is only 57.9%
- Some properties in high-performing cities (like Delhi) underperform
- Over 40% of rooms go unused especially midweek

## Recommendation:

- Offer discounts/packages on low-demand dates via direct channels
- By focusing on city-level campaigns and tailored packages (e.g., midweek bundles, event tie-ins), underutilized capacity can be converted into bookings.
- A 5% occupancy increase adds ~6.7K room sales, worth over ₹100M in new revenue.
- It's a better use of existing infrastructure than building new capacity.

# Revamp Booking Platform Strategy

#### Insight:

- Most revenue comes from high-cancellation platforms
- Direct bookings have lower cancellations, but low volume

#### Recommendation:

- Incentivize direct bookings via cashback or loyalty
- Negotiate lower commissions with high-volume, high-cancellation platforms

#### Justification:

- Shifting booking volume toward direct channels increases revenue retention (less commission loss), reduces cancellation rates, and gives hotels greater control over guest relationships.
- Even a 10% shift to direct bookings can result in ₹30M+ in retained earnings, and it helps build brand loyalty and repeat stays.



# Implement Day-Type Based Dynamic Pricing

#### Insight:

• Weekday sales dominate quantity, but weekends see spike in Premium/Elite room sales

#### **✓**Recommendation:

- Increase price differential between high-demand room types (Elite) and low (Presidential)
- Apply day-type-based dynamic pricing (Premium rooms cheaper midweek)

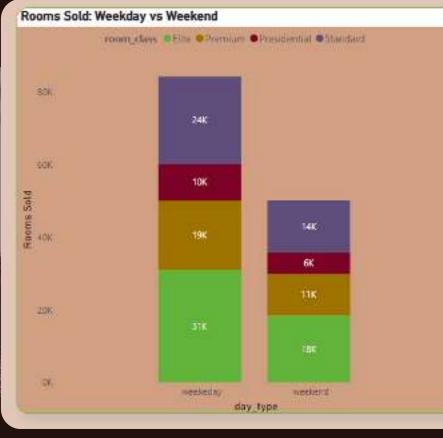
#### **Justification:**

Dynamic pricing lets you charge more when demand is high, and offer targeted discounts to drive traffic when demand is low.

This maximizes Revenue per Available Room (RevPAR) without compromising occupancy.

Airlines and top hotel chains like Marriott & Taj already use this — it's a proven method to optimize both price and volume.





# Room Type Demand Skews Toward Mid-Tier Preferences



Room 01 \$ 9,34,56

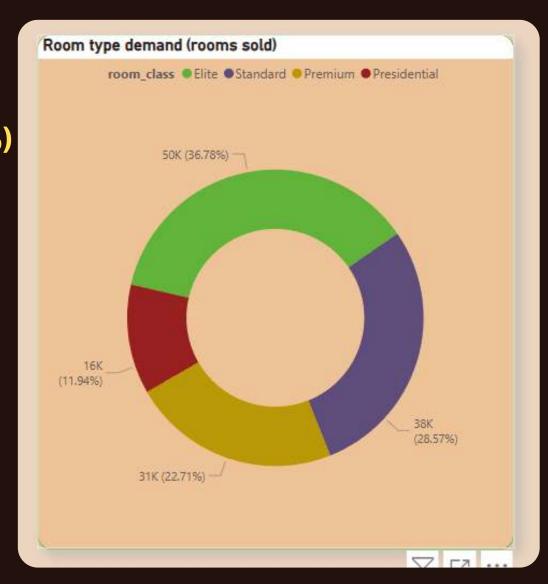


Room 02 \$ **6.34.56** 



\$ 12,034,56 Room 03

- Insight (from Donut Chart)
  - Elite rooms account for the highest share (36.8%) a surprising leader
  - Standard and Premium rooms together make up just over half (51.3%)
  - Presidential rooms severely underperform (only ~12%) despite highest pricing
  - Suggests that customers are price-sensitive but open to upgraded comfort (Elite)
- **Recommendation**
- Reposition Presidential rooms with bundled experiences (e.g., spa, dining, airport pickup)
- Offer limited-time upgrades from Premium to Elite for a small fee
- Promote Elite rooms more actively they show strong traction and may benefit from pricing tweaks
- Test weekday discounts on underperforming Premium/Presidential rooms



# Empower Property-Level Performance Strategy

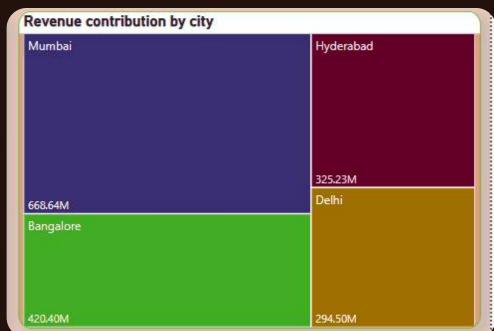
### Insight:

- Some hotels in top-performing cities lag behind others
- Inconsistent performance indicates operational or service issues
- **✓**Recommendation:
- Run performance audits for lagging properties in top cities
- Push customized training or bundled services to improve outcomes





Building hotel-level dashboards and assigning KPIs like occupancy,



conversion rate, and revenue per guest creates accountability at the ground level.

Properties can receive tailored training or marketing support based on performance data, improving efficiency and outcomes.

This decentralizes performance management and builds a data-driven culture within the hotel chain.



#### **® RECOMMENDATIONS BEING CONSIDERED**

- 1. Stricter cancellation policies + prepayment enforcement
- 2. Midweek/weekday-specific offers to boost occupancy
- 3. Platform mix optimization (shift from OTAs to direct)
- 4. Dynamic pricing based on room class and day type
- 5. Upselling/bundling for underperforming luxury rooms

### Breakdown of Estimated Annual Revenue Gain

Revenue Uplift Area	Assumption/Justification	Estimated Gain (₹)
Reduced Cancellations	Recover 10% of current loss (₹497.96M × 10%) via prepayment & policy tightening	₹50M
Increased Occupancy (via weekday offers)	5% more occupancy = ~6,750 rooms × ₹12,700 ADR	₹85M – ₹120M
Platform Mix Optimization	Shift to direct bookings reduces OTA commission & boosts revenue	₹30M
Upselling Premium/Presidential Rooms	Bundling & repositioning strategies lead to marginal price lift & higher conversion	₹15M – ₹20M
Dynamic Pricing Based on Day Type & Demand	Better alignment of price with demand (weekday/weekend) & room class	₹25M – ₹30M
TOTAL ESTIMATED GAIN		₹240M – ₹270M

### **Breakdown of Implementation Cost**

Item	Estimated Cost (₹)	
Policy integration, tech upgrade	₹5,00,000	
Staff training, incentive realignment	₹3,50,000	
CRM tools & email automation	₹2,00,000	
Dashboard setup and analysis tools	₹1,50,000	
Total	₹12,00,000 (₹1.2M)	

## ROI & Payback Analysis Table

Component	Value
Estimated Annual Revenue Gain	₹240M – ₹270M
Implementation Cost (one-time)	₹1.2M
ROI	199x – 224x
Payback Time	1.5 to 2 weeks

# Scenario Analysis

Scenario	Assumptions	Revenue Impact
Best Case	10% fewer cancellations, 8% more occupancy, major shift to direct bookings	₹400M+ gain
Most Likely	5% fewer cancellations, 5% occupancy boost, moderate success in upselling	₹240M – ₹270M gain
Worst Case	2% fewer cancellations, minimal platform shift, limited uptake of new policies	₹50M – ₹80M gain

## Conclusion

This project uncovered key operational gaps and revenue leakage in the hospitality business using real booking data from 135K+ transactions.

### Through Power BI dashboards and DAX-driven KPIs, we identified:

- A high cancellation rate (24.83%) leading to ~₹498M revenue loss
- An occupancy rate of 57.9%, signaling room for better capacity utilization
- Underperformance of premium offerings and uneven hotelwise revenue contributions

Based on these insights, we proposed 5 strategic, low-cost recommendations focused on:

- Reducing cancellations
- Increasing occupancy
- Optimizing platform mix
- Leveraging dynamic pricing
- Enhancing room-type positioning and upselling

The projected annual revenue gain is ₹240M–₹270M, with a payback period of just 1.5–2 weeks — even in a conservative case, the initiative is profitable within a month.

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