

Smudge

Mudit Sharma

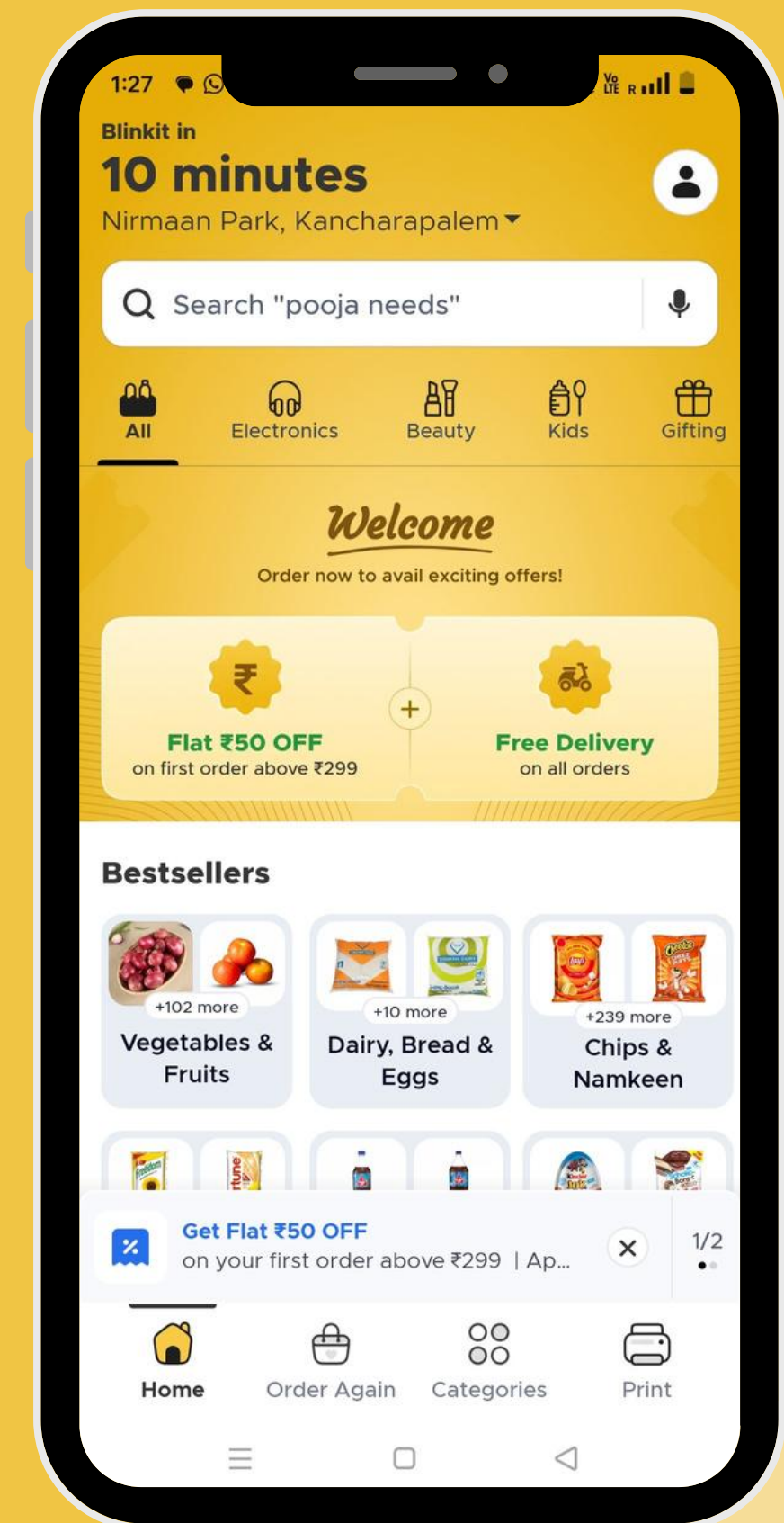
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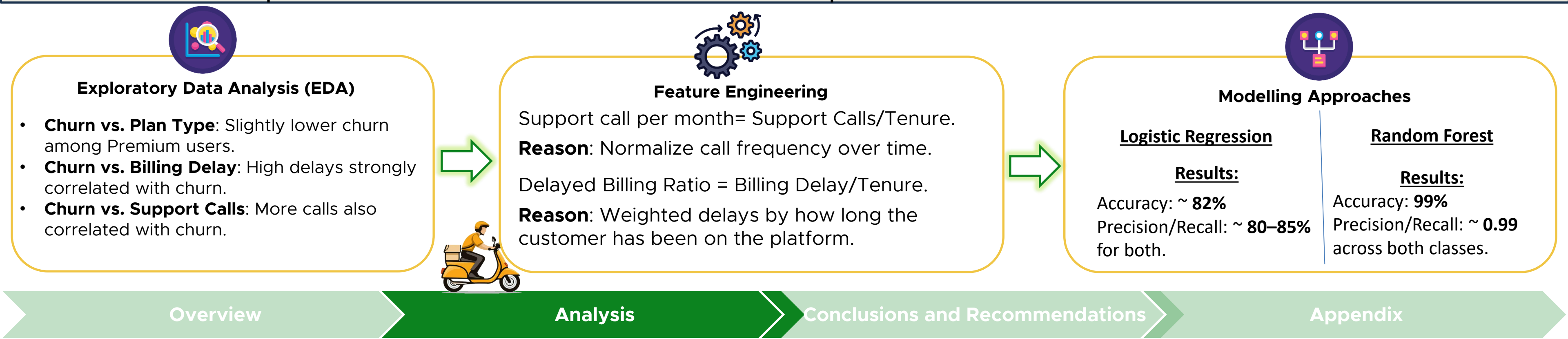
blinkit

Churn Analysis & Strategies



A Glimpse of Blinkit and the Indian Quick Commerce Industry																				
Business Profile	Competitors & Market Share	The Holy Grail of Quick Commerce: The Churn																		
<ul style="list-style-type: none">Quick Commerce Model: Ultra-fast grocery and essentials delivery, powered by hyperlocal micro-warehouses.Broad Catalog & Convenience: Offers a wide range of everyday products with doorstep delivery in minutes.Tech-Driven Operations: Utilizes proprietary tech for route optimization and inventory management.	<div><h3>Quick Commerce in India</h3><p>India's quick commerce market is mainly dominated by three players- Blinkit, Swiggy Instamart, and Zepto. The market value is expected to expand to \$5.5 billion by 2025.</p><div><div><div>39%</div><div>blinkit</div><div>Zomato-backed Blinkit is the market leader in India's quick commerce space</div></div><div><div>37%</div><div>swiggy instamart</div><div>Instamart has been able to grow distribution by tapping into Swiggy's customer base.</div></div><div><div>20%</div><div>zepto</div><div>Zepto has left behind players like Dunzo, Big Basket despite entering the market after them.</div></div><div><div>4%</div><div>Others</div><div>Tata-backed Big Basket and Reliance-backed Dunzo make up this segment of the market.</div></div></div><p>The size of India's quick commerce market is around \$700 million!</p></div>	Churn Driver	Description	Impact Level	Supporting Data															
<div><h3>Key Insights</h3><div><h4>QC Firm's Market Growth</h4><table><tr><th>Year</th><th>Growth</th></tr><tr><td>CY21</td><td>1x</td></tr><tr><td>CY22</td><td>10x</td></tr><tr><td>CY23</td><td>10x</td></tr><tr><td>CY30F</td><td>13x</td></tr></table></div><ul style="list-style-type: none">Market Profile – Highly CompetitiveTypical monthly churn for food/grocery can be 25-30% without strong retention tacticsCustomers demand: Speed, Reliable Deliveries & Price Transparency</div>	Year	Growth	CY21	1x	CY22	10x	CY23	10x	CY30F	13x		Delivery Reliability	Late/inconsistent deliveries; incorrect or missing items.	High	70% of users abandon after repeated late deliveries; Rider turnover of 18–20% disrupts service.					
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	Pricing & Fees	High/hidden delivery fees; confusing fee structures (e.g., small-basket charges).	High	Industry churn can exceed 25–30% monthly due to pricing dissatisfaction.																
	Product Availability & Inventory	Frequent stockouts or limited SKUs leading to lost orders and trust.	Medium-High	Recurring out-of-stock items prompt “app-hopping.”																
	User Experience (UX)	App glitches, complex checkout, slow load times.	Medium-High	Up to 77% of new users may churn if technical issues persist.																
	Customer Service & Issue Resolution	Unresponsive support; slow refunds; unresolved complaints.	Medium	Prompt, empathetic resolution can prevent churn post-service hiccup.																
	Personalized Engagement & Marketing	Irrelevant or excessive notifications; lack of tailored offers.	Medium	Personalized marketing can reduce churn by 15–20% .																
Key Insights	Delivery Times																			
	<table><tr><td>blinkit</td><td>Blinkit</td><td></td><td>10 Mins</td></tr><tr><td>swiggy instamart</td><td>Instamart</td><td></td><td>15 Mins</td></tr><tr><td>bb</td><td>Big Basket</td><td></td><td>20 Mins</td></tr><tr><td>OLA</td><td>Ola Foods</td><td></td><td>30 Mins</td></tr></table>	blinkit	Blinkit		10 Mins	swiggy instamart	Instamart		15 Mins	bb	Big Basket		20 Mins	OLA	Ola Foods		30 Mins			
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Overview		Analysis		Conclusions and Recommendations																
				Appendix																

Internal Churn Driver	Qualitative Reasons	Quantitative Analysis
 Billing & Payment Friction	Customers complain about complex invoices, unclear fees, or late payment notifications	<ul style="list-style-type: none"> • Logistic Regression: $\beta \approx 1.99$, significantly increases churn odds by 7.3x • Random Forest: Billing features are key split variables, contributing heavily to 99% accuracy.
 Support & Service Issues	Long wait times, unresolved problems, repeated contacts.	<ul style="list-style-type: none"> • Logistic Regression: $\beta \approx 1.09$, 3x odds of churn) • Random Forest: High call frequency is a clear churn differentiator.
 Engagement & User Drop	Boredom, lack of new features, or “no reason to open the app”	<ul style="list-style-type: none"> • Service Usage Rate: Negative coefficient ($\beta \approx -0.52$), so higher usage reduces churn odds by ~41%. • Recent Activity: also slightly negative, indicating active users are safer.
 Plan & Duration Mismatch	BASIC/STANDARD customers feel insufficient services Low switching cost for monthly subscribers	<ul style="list-style-type: none"> • Agreement Duration: Negative coefficient ($\beta \approx -0.11$), implying longer contracts reduce churn risk (~10%). • Plan Type: Mildly negative coefficient ($\beta \approx -0.11$) for certain plans (e.g., Premium), indicating tiers are sticky
 Demographic Nuances	Product design, marketing messages, or brand image might be less appealing	<ul style="list-style-type: none"> • Sex has a positive coefficient ($\beta \approx 0.57$), suggesting the encoded gender is 1.76x churning than other • Customer Age with $\beta \approx 0.29$ indicates older customers churn more
 Tenure Effect	Long term users feel app’s novelty worn off Loyalty program unrewarded	<ul style="list-style-type: none"> • Tenure: ($\beta \approx 0.60$) indicates longer-tenured customers churn more, possibly due to dissatisfaction.



Phase 1

Phase 2




Phase 3

Immediate Fixes
1 – 3 months




Medium Term Initiatives
3 – 6 months

Long Term Strategies
6 – 12 months




Billing Transparency & Fee Overhaul

-  **What -** Redesign invoices, enable auto-pay, provide clear fee breakdowns across Basic, Standard, and Premium
-  **Why -** Price-sensitive Basic users often churn when blindsided by fees; Standard users might question the plan's value if billing is unclear
-  **Impact -** Could reduce churn by **5–10%** among cost-sensitive cohorts




Delivery Optimization

-  Route optimization to ensure on-time deliveries for all plans. Priority fulfillment system for Premium, guaranteeing **10–30** minute windows
-  Late deliveries are a top churn driver across quick-commerce; Premium must preserve its promise to keep churn minimal
-  Could reduce churn by **10–15%** for users who previously experienced delays, reinforcing plan promises




VIP/Elite Extensions for Premium

-  Tier up within Premium for ultra-loyal, long-tenured customers—faster reward accrual, exclusive access to new product launches, or “**white-glove**” service
-  Combat the surprising “**Tenure effect**” ($\beta \approx 0.60$) by continually refreshing loyalty perks to prevent stagnation
-  Reduces churn among the most valuable users who might feel bored or unappreciated over time




Early-Engagement Campaigns

-  Proactive in-app nudges, push notifications, or small loyalty rewards after first few orders—tailored differently for Basic vs. Standard/Premium
-  Low usage strongly predicts churn; a “**re-engagement**” approach can raise activity by **10–15%**
-  Basic plan users see curated deals or free deliveries on specific items; Standard users get modest loyalty points to boost usage




Refined Plans & Contracts

-  **Basic:** Possibly remove or lower minimum order thresholds during off-peak to encourage usage
- Standard:** Introduce loyalty rewards
- Premium:** Periodic introduction of “**surprise & delight**” benefits (e.g., free gift items) to boost user engagement
-  Align plan features with user expectations; usage and satisfaction should grow with more tailored benefit
-  Lowers churn in Basic and Standard tiers by incentivizing them to not “**jump ship**” to a competitor




Personalized Marketing & Advanced Loyalty

-  Leverage churn model outputs (**Random Forest signals + usage data**) to deliver targeted offers. For Standard/Premium, tailor loyalty rewards to user behavior (e.g., frequent snack shoppers get snack-related offers)
-  Personalized marketing can reduce churn by **15–20%**
-  Basic might upgrade to Standard, Standard might jump to Premium, or at least remain loyal if they see relevant offers




Support Restructuring

-  Train staff for faster first-call resolution. Expand chatbots/self-service for Basic/Standard users to handle common queries. Ensure Premium’s **24/7** line is truly “**immediate**”
-  Negative support experiences correlate with a **3x** churn odds
-  Helps maintain Premium’s low churn while mitigating dissatisfaction in Basic/Standard

Inventory & Stock Management

-  AI-driven demand forecasting, real-time stock checks, and special priority restocking for high-demand items
-  Stockouts drive churn; consistent availability is crucial, especially for Premium users expecting “**the best experience**”
-  Minimizes “**app-hopping**” could raise retention by **5–8%** across all tiers

Continuous Model Monitoring

-  Validate the Random Forest monthly with fresh samples, track feature importance changes, and respond swiftly to new churn triggers
-  Quick-commerce is dynamic; competitor moves or policy changes can shift churn drivers
-  Ensures Blinkit remains agile and addresses emerging pain points before they escalate churn rates



Additional Analysis

Interactive Power BI Dashboard: [Dashboard Link](#)

Python Code: [Google Colab Link](#)

Pdf with detailed dataset insights: [Document Link](#)



Thank You!

