

Competitive Pricing and Market Strategies: A Game Theoretic Analysis of KFC and Chicken Inn Eateries in Kenya.

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Abstract- *This paper explores the competitive pricing and market strategies of KFC and Chicken Inn in Kenya through game theory. KFC and Chicken Inn are major player in the fast-food industry in Kenya. They engage in strategic decision making to maximize profits while responding to consumer demand and competitor actions. The study will use game-theoretic models, including Nash equilibrium mixed-strategy frameworks, to analyse pricing decisions, promotional tactics and market positioning. By analysing real world pricing data and strategic interactions, this research identifies patterns of cooperation, price wars and differentiation strategies. The findings offer valuable insights into the impact of competition on market dynamics in Kenya's fast-food sector, with implications for sustainable competitive strategies.*

Indexed Terms- *KFC, Chicken Inn, fast food industry, Kenya, game theory, competitive pricing, Nash equilibrium, market strategies*

I. INTRODUCTION

The fast-food market in Kenya has experienced tremendous growth over the past decade, with both local and international brands competing for market dominance. Among the most notable competitors are Kentucky Fried Chicken (KFC) and Chicken Inn, two fast food chains that have established a strong presence in the country. As they vie for consumer preference, these brands employ various pricing strategies, promotional tactics, and market positioning techniques to gain a competitive edge. This intense rivalry presents a compelling case for the application of game theory in analysing their strategic interactions.

Economic game theory is a branch of economics that analyzes situations where players interact strategically and the outcome for each participant depends not only on their own decisions but also on the choices made by others. Economic game theory enables experts to understand how competition influences business decisions in competitive settings. Price-competition businesses need to understand their rivals' behaviour by making needed changes to their pricing patterns to achieve maximum profit gain. The fast-food sector in Kenya lets pricing strategies of firms depend on consumer preferences plus brand loyalty alongside cost structures and external market influence. The dynamic relations between KFC and Chicken Inn in the marketplace align with Nash equilibrium theory alongside Bertrand competition and price war situations to understand price strategy patterns in a connected industry environment.

The research investigates how pricing and market strategies between KFC and Chicken Inn influence their Kenyan market competition. The analysis employs game theory to answer essential questions regarding the pricing interactions between KFC and Chicken Inn. To what extent does consumer behaviour influence their pricing decisions? The companies show evidence of price wars during their competitive acts. The research provides an in-depth examination of these competitive factors to enhance our knowledge about fast-food industry competition in Kenya.

II. LITERATURE REVIEW

2.1 Introduction

Researchers have conducted extensive examinations of market strategies and pricing competition through game theory principles. Different scholars focus on studying pricing approaches that firms use to compete

particularly in oligopolistic markets which feature dominant firm leadership. A review investigates multiple theoretical along with empirical views about game theory applied to pricing strategies specifically in the fast-food sector. Competitive market research includes both Bertrand (price competition) and Cournot (quantity competition) competitions alongside analysis of price wars and differentiation approaches and strategies to deter new market entry.

2.2 Game Theory and Competitive Strategies

Game theory as developed by John von Neumann and Oskar Morgenstern (1944) creates a system to examine strategic market competition between rival businesses. The pricing competition dialogue centres mainly on two fundamental models established during 1838 by Cournot and 1883 by Bertrand. The Bertrand model shows how firms battle for prices up to find cost equal prices as equilibrium, yet Cournot demonstrates that firms fight for production amounts which generate price equilibriums. Strategic moves such as commitment and signalling and retaliation within competitive markets get incorporated by Dixit and Nalebuff (1991) in their extended model frameworks. Markets use such strategic moves to create both pricing wars and block potential new entrants from joining the market.

2.3 Price Wars in the Fast-Food Industry

Studies of fast-food prices demonstrate that KFC and Chicken Inn along with other rivals maintain recurring price competition strategies. Oligopolistic markets develop price wars because firms try to reduce prices to gain bigger market shares according to Tirole (1988). Multiple examples from the worldwide fast-food market demonstrate the use of price reductions as strategic methods by industry actors. McDonalds and Burger King persistently modify their prices to lure cost-sensitive customers by sustaining brand commitment through individual product variations according to Cabral (2000). Fast-food industry trends in Kenya show that KFC and Chicken Inn implement competitive pricing dynamics which facilitates both customer loyalty and business success. According to Wanjiku (2021) as well as Mwangi (2022) KFC Kenya implements premium pricing strategies through

promotional offers and Chicken Inn focuses on penetrating the market using price reduction tactics.

2.4 Market Differentiation Strategies

Porter (1985) lists differentiation as an industry approach for businesses to escape rate-based market competition. Fast-food businesses achieve product distinction through new menu additions while simultaneously establishing brands and providing unique customer journeys and service quality. KFC builds brand differentiation through international presence and exclusive spices and high-end image alongside Chicken Inn which targets domestic customers at the lower end of the market. Schmalensee (1982) explains that businesses which possess distinctive brand popularity together with separate products can keep elevated prices that lower direct pricing battles. In the Kenyan market KFC caters to middle-to-upper-income consumers alongside Chicken Inn serving a wide range of cost-conscious customers.

2.5 Strategic Entry Deterrence and Market Power

Market competition heavily depends on the strategic relationship which develops between existing businesses and new market participants. Bain (1956) indicates that strong market power firms use tactics such as expanding capacity along with aggressive pricing and brand domination to stop new market competitors. The extensive advertising efforts of KFC together with its purposeful store placements have created entry obstacles against conventional Kenyan fast-food restaurants. Milgrom and Roberts (1982) explain that firms use aggressive market signals to warn competitors away from entering the market. The growing competition from KFC led Chicken Inn to establish more franchise locations that offer lower prices and locally customized menus to fight for market stability.

2.6 Conclusion

Research indicates that game theory offers a strong approach to study competitive pricing together with business strategies. Both KFC and Chicken Inn in Kenya follow classic game-theoretical models to compete through pricing strategies and differentiate

their products while positioning in the market. Empirical data analysis follows this segment to evaluate how theoretical findings apply to the Kenyan fast-food market.

III. THEORETICAL FRAMEWORK

3.1 Introduction

Game theory serves as the theoretical basis to examine competitive pricing and market strategies. The analysis investigates relevant economic and strategic principles which shape pricing choices and competitive approaches and strategic placements within the fast-food market.

3.2 Game Theory in Competitive Markets

Game theory is key to understanding the interactions between competing firms. The two dominant models in competitive pricing analysis are:

- **Bertrand Competition Model:** Assumes firms compete on price, leading to a price war that drives prices down to marginal cost levels (Bertrand, 1883). This model is relevant in the fast-food industry, where firms like KFC and Chicken Inn continuously adjust prices in response to competitors.
- **Cournot Competition Model:** Assumes firms compete on output quantities rather than prices (Cournot, 1838). This model applies when firms focus on expanding market presence through increased production capacity rather than direct price cuts.

These models provide a framework for analysing the pricing behaviour of KFC and Chicken Inn in Kenya's fast-food market.

3.2 Strategic Pricing and Nash Equilibrium

A scenario meeting Nash Equilibrium standard in competitive pricing exists when only unilateral price adjustments by firms reduce their profitability. Market dynamics between KFC and Chicken Inn operate as an equilibrium system through which both firms modify their prices after analysing market flexibility in response to competitor adjustments.

3.3 Conclusion

The research uses game theory as its theoretical base to analyse competitive dynamics between KFC and Chicken Inn. The theories establish systematic methods for explaining how companies utilize pricing and differentiate their services and positions while competing in Kenya's fast-food market.

IV. METHODOLOGY

4.1 Research Design

This study adopts a mixed-methods research design, incorporating both qualitative and quantitative approaches to analyse competitive pricing and market strategies of KFC and Chicken Inn in Kenya.

4.2 Data Collection Methods

- **Secondary Data:** Analysis of financial reports, market studies, and previous research on competitive strategies in the fast-food industry.

4.3 Data Analysis Techniques

- **Quantitative Analysis:** Statistical analysis of pricing trends, customer preferences, and market share distribution.
- **Qualitative Analysis:** Thematic analysis of interview responses and case studies on competitive behaviour.

4.4 Ethical Considerations

Secondary data sources are cited appropriately.

4.5 Conclusion

The methodology provides a structured approach to gathering and analysing data, ensuring reliability and validity in assessing the competitive pricing strategies of KFC and Chicken Inn in Kenya.

V. ANALYSIS AND DISCUSSION

5.1 Introduction

This section presents an analysis of the collected data and discusses the implications of competitive pricing and market strategies employed by KFC and Chicken Inn in Kenya.

Price Comparison of Popular Meal Packages

Description: This table compares the prices of similar meal packages offered by KFC and Chicken Inn, highlighting the differences in their pricing strategies.

Meal Package	KFC Price (KES)	Chicken Inn Price (KES)
2-Piece Chicken & Fries	450	350
3-Piece Chicken & Fries	650	470

Data Source: The Star Newspaper

Customer Satisfaction Rankings (2024)

Description: This data illustrates the customer satisfaction scores of leading food service brands in Kenya for the year 2024, showcasing KFC and Chicken Inn's positions relative to competitors.

Data:

1. KFC
2. Cold Stone Creamery
3. Java House
4. Chicken Inn
5. Big Square
6. Art Caffe
7. Papa Johns
8. Pizza Inn
9. Galito's
10. Burger King

Data Source: SagaBrand's customer satisfaction survey.

Chicken Inn's Expansion in Kenya

Description: The data below outlines the growth of Chicken Inn's outlets in Kenya over recent years, indicating their market penetration and expansion strategy.

Year	Number of Outlets
2022	57
2023	63
2024	72

Data Source: Business Daily article on Chicken Inn's expansion.

These visualizations provide a comparative overview of KFC and Chicken Inn's pricing strategies, customer satisfaction, and market expansion in Kenya.

5.2 Competitive Pricing Strategies

The findings indicate that KFC employs premium pricing, leveraging its global brand, while Chicken Inn utilizes penetration pricing to attract cost-sensitive consumers. Data analysis shows a significant correlation between pricing strategies and consumer preferences, with Chicken Inn capturing a larger share of the budget-conscious market.

5.3 Market Differentiation and Positioning

KFC's differentiation strategy, focusing on product uniqueness and global branding, enables it to maintain higher price points. Chicken Inn, on the other hand, capitalizes on affordability and local preferences, ensuring wider market appeal.

5.4 Game Theory in Action

Observations suggest that both firms adjust pricing dynamically, reflecting elements of the Bertrand competition model. Price wars are evident during promotional periods, yet differentiation strategies help mitigate extreme competition.

5.5 Conclusion

The analysis highlights the effectiveness of varied pricing strategies within Kenya's fast-food market. While KFC commands a premium segment, Chicken Inn thrives in affordability, demonstrating how firms navigate competition using game-theoretic principles.

VI. CONCLUSION AND RECOMMENDATIONS

6.1 Conclusion

This study has demonstrated that competitive pricing and market strategies in Kenya's fast-food industry align with fundamental game-theoretic principles. KFC's premium pricing and strong brand positioning contrast with Chicken Inn's penetration pricing and affordability strategies. The dynamic pricing adjustments between the two firms reflect elements of the Bertrand competition model, while differentiation strategies mitigate the intensity of price wars. Overall, this analysis highlights how firms navigate pricing and competition to maintain profitability and market presence.

6.2 Recommendations

1. For KFC:

- Leverage localized pricing strategies to appeal to a broader consumer base.
- Increase promotional campaigns to compete with Chicken Inn's affordability.
- Expand product differentiation through unique menu offerings.

2. For Chicken Inn:

- Strengthen brand positioning to compete with KFC's premium appeal.
- Expand its franchise network to increase market coverage.

- Invest in digital marketing to attract tech-savvy consumers.

3. For Policymakers:

- Monitor price competition to ensure fair market practices.
- Support local fast-food businesses to enhance industry diversity.

These recommendations provide strategic insights for industry stakeholders aiming to optimize competitive positioning in Kenya's fast-food sector.

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