

Feeding the Future



A Deep Dive into DoorDash's Strategic Landscape



Presented by Group 8:

Qiuyi Zhao,

Yuntong Zhu,

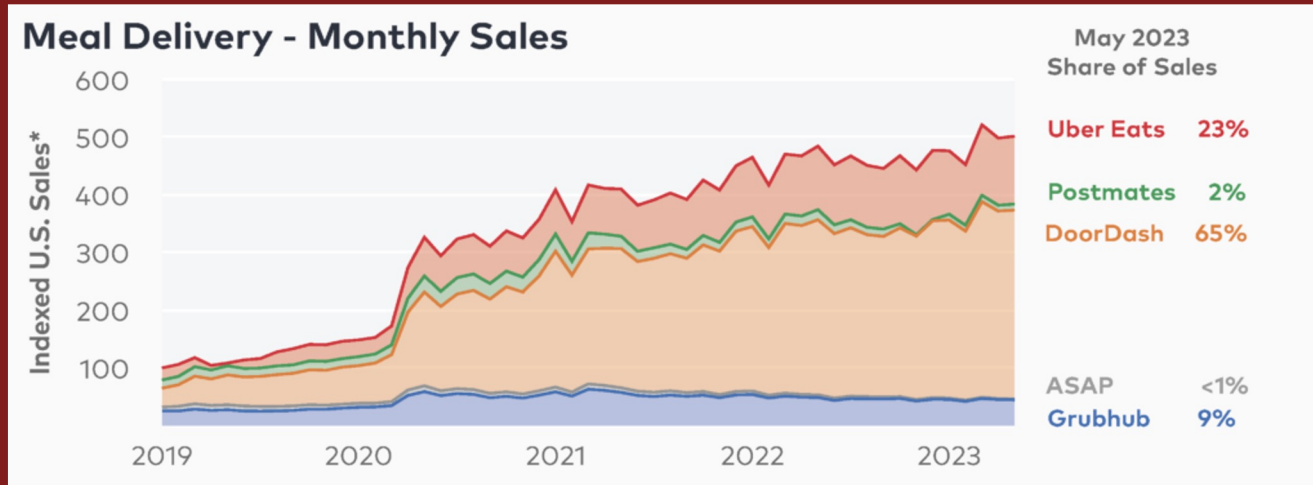
Jingze Zhang,

Shaokun Zhang,

Yuchen Zhang



External | Challenging |



In a highly competitive food delivery market, DoorDash holds a dominant position with a 65% share, but faces ongoing pressure from competitors like Uber Eats, Postmates and Grubhub etc.



Case Analysis

Problem Statement

Alternatives

Solution

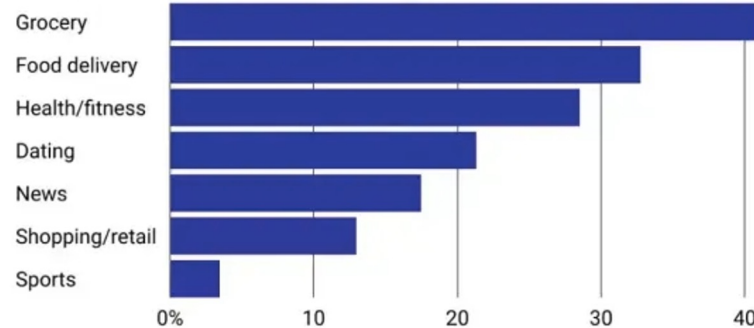
Implementation

Risk & Mitigation

External | Opportunity 💡



User growth of smartphone apps in the US, 2020



Note: The grocery and dating categories only include smartphone users over age 18. Food delivery and shopping/retail categories only include smartphone users over age 14.

Data source: Insider Intelligence | eMarketer

The food delivery industry has been vastly revolutionized by the rise of technology.



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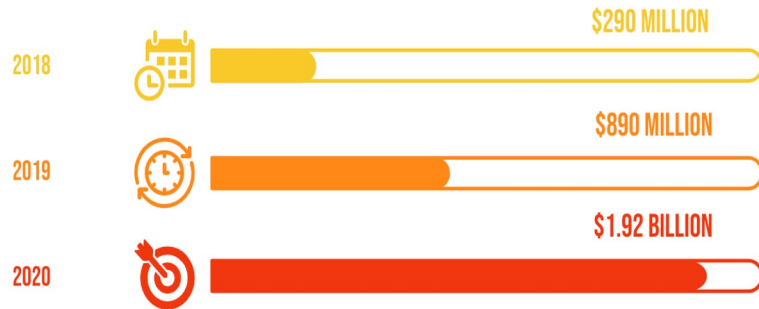
Implementation

Risk & Mitigation

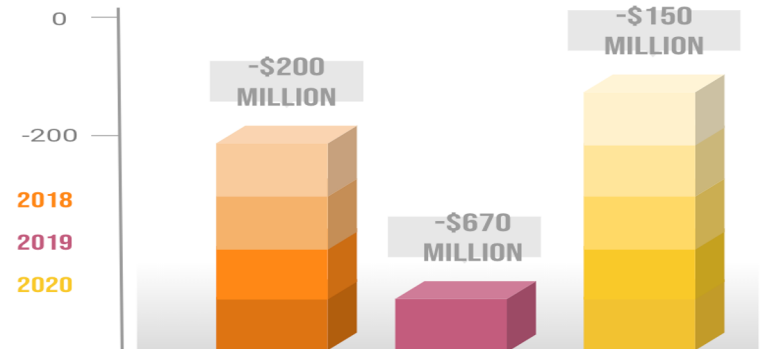
Internal | Challenging

DoorDash copes with continued net losses despite significant revenue growth due to increased demand for food delivery during the Covid-19.

2018-2020 Revenue



Net loss



Internal | Machine Learning



Valuable



Rarity



Imitability



Organization



Collected over 900 million orders information



To predict the time of food which could increase the efficiency

Machine learning helps predict delivery times more accurately, resulting in improved customer service and delivery efficiency.



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PROBLEM Identification



"DoorDash should investigate innovative strategies to avert ongoing financial deficits and uphold its dominant position in the fiercely competitive food delivery industry."



Alternatives



- I. **Robot Delivery:** Invest in the development and implementation of robotic delivery services to reduce reliance on human drivers.
- I. **Machine Learning:** Using artificial intelligence and machine learning algorithms to enhance its order management, delivery route optimization and demand forecasting.
- I. **“Ghost” Kitchen:** Create a “ghost” kitchen that belongs to DoorDash to better control food quality, delivery speed and customer experience.

Three different solutions to the DoorDash problem



Criteria



1. Budget & Cost



Are the costs required within the company's acceptable range?

2. Operational Efficiency



Is it possible to improve the operational efficiency within the company?

3. Reliability



Does this solution have a certain degree of reliability?

Budget and Cost, Operational Efficiency, and Reliability were used as criteria for analyzing the three alternatives

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Solution Identification



The machine learning satisfies all three criteria

Budget & Cost

Operational Efficiency

Reliability

Invest robotic delivery services



Using artificial intelligence and machine learning algorithms



Create a "ghost" kitchen that belongs to DoorDash



Value Generated

Machine Learning can help us increase sales and lower operating costs



Personalized Recommendations

Increase customer experience and sales



Demand Predictions

Anticipate customer needs to increase sales



Delivery Optimization

Optimizing delivery resources



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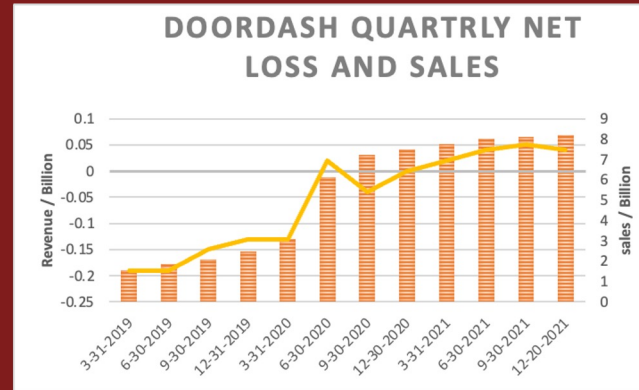
Estimated Revenue and Sales

● -0.165 B
2019

Average Revenue

● 2.01 B
2019

Average Sales



2019

2020

2021

DoorDash Revenue Analysis and
Prediction

0.03 B
Estimated
Revenue

7.91 B
Estimated Sales

2021
Year

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Implementation

Phase 1 Model development					Phase 2 Pilot Testing and Implementation				Phase 3 Expanding scale				
Action	Data collection and labeling		Model training and testing		Pilot city testing and experiment		Staff training		Improvement and Implement to all cities		Evaluation		
Cost / Revenues	\$20,000		\$88,500 (Incze, 2019)		\$40,000		\$20,000		\$100,000		\$10,000		
Project Plan	Dec	Jan	Feb	Mar	May	Jul	Sep	Nov	Dec	Feb	Mar	May	
	Activity / Phase 1												
				Activity / Phase 2									
				Milestone				Activity / Phase 3					

Constant development and improvement through 1.5 year, with \$278,500

Risk & Mitigation



Inaccurate prediction

Solution alignment with problem
Form multiple research groups



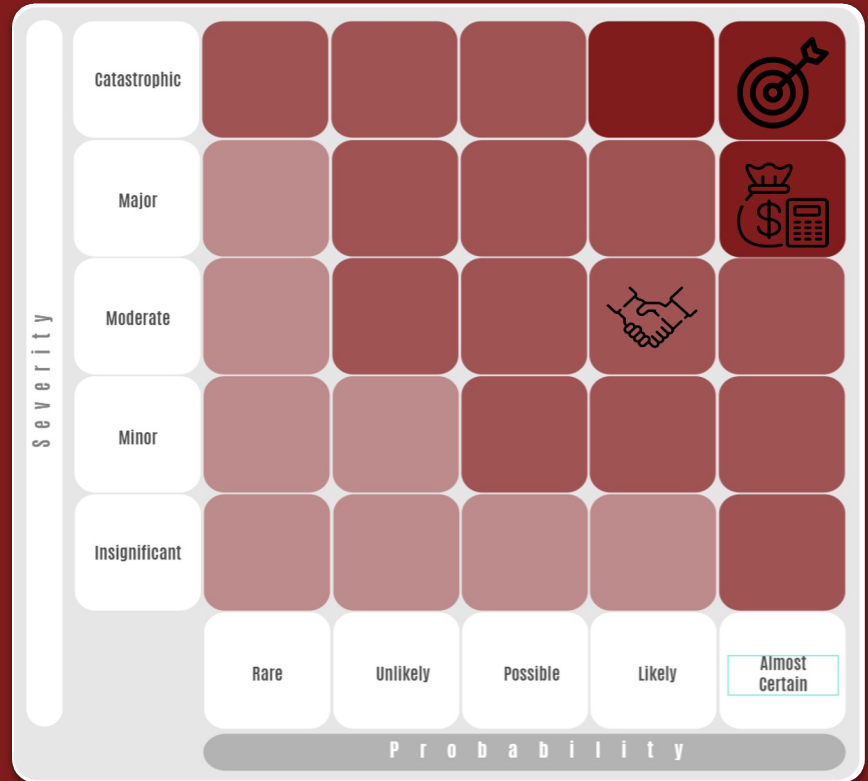
Over reliance

Add flexibility for dashers



Complexity and cost

Use roll-out plans and milestones



High risk, high payback, Doordash should be prepared for loss



Case Analysis

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Executive Summary

Problem Statement

"DoorDash should investigate innovative strategies to avert ongoing financial deficits and uphold its dominant position in the fiercely competitive food delivery industry."

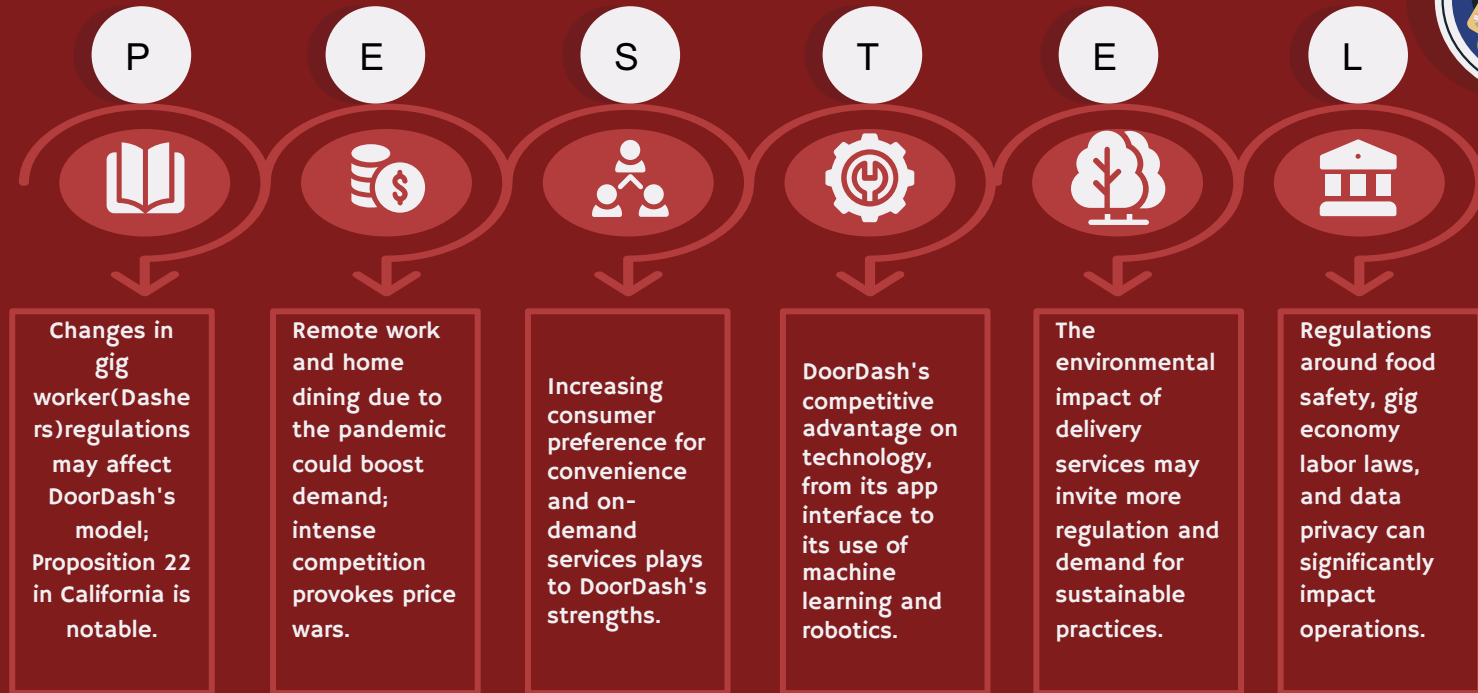
Solution

Use Machine Learning to Reduce Operational Cost





Appendix: PESTEL



Appendix: SWOT ANALYSIS



STRENGTHS

- Innovative use of technology (machine learning, robots) to optimize efficiency and improve service.
- Loyalty customer base



WEAKNESS

- High dependence on SoftBank for capital, creating potential sustainability issues.
- High service charges leading to customer dissatisfaction and strained relationships with restaurants.



OPPORTUNITIES

utilization of machine learning, robotics, and ghost kitchens to expand market scope



THREATS

- The online food delivery market is highly competitive
- If the contractor model (gig economy) comes under legal scrutiny, it could threaten DoorDash's business model, leading to higher operating costs.

Appendix: VRIO

Resources	Valuable	Rarity	Imitability	Organization	Competitive Advantage
DoorDash Pass	YES	NO	NO	YES	Temporary Competitive Advantage
Machine Learning	YES	YES	YES/NO	YES	Sustained Competitive Advantage
Robert Delivery	YES	YES	NO	YES/NO	Emerging Competitive Advantage

Reference

- Perri, J. (2023, June 15). *Which company is winning the restaurant Food Delivery War?*. Bloomberg Second Measure. <https://secondmeasure.com/datapoints/food-delivery-services-grubhub-uber-eats-doordash-postmates/>
- Incze, R. (2019, September 12). *The Cost of Machine Learning Projects*. Medium; Cognifed. <https://medium.com/cognifed/the-cost-of-machine-learning-projects-7ca3aea03a5c>

