

Food Tastes Best When It's On Time

Food Delivery Insights

Online Delivery

Presented by
Group 5



Introduction



- Optimizing Delivery Efficiency in Supply Chain Logistics
- A Data-Driven Approach to improve delivery KPIs.

Team Introduction



Kanchan Devi

W0836627

Bachelor in Science,
Master's in Mathematics

Narendran Asokan

W0836723

Computer Science Engineer,
MBA in Marketing and Sales

Lakshmi Priya Armugan

W0851437

Bachelor of Engineering in
Computer Science

Sachin Ramasubramanian

W0849986

Bachelor in Information Technology

Karthikeyan Baskaran

W0832591

Bachelor in Engineering in Mechanical

Problem Statement



Delivery times are unpredictable and vary widely. Rider sometimes struggle with performance and delay in order handling.

Project Proposal



Transforming delivery operations
with actionable analytics to boost
rider efficiency, reduce
cancellations, and enhance
customer satisfaction.

Dataset Information

Dataset Source

The dataset is sourced from Kaggle platform.

<https://www.kaggle.com/datasets/cbhavik/swiggyzomat-order-information/data>

Dataset Description

- **Order timestamps:** Order placement to delivery.
- **Delivery distances:** First mile (restaurant to rider) & last mile (rider to customer).
- **Rider performance:** Orders assigned, delivered, & undelivered.
- **Order status:** Cancellations & reassignments.



No Bias in Dataset



Ethical Considerations



No Personal Info

Analysis Questions

Distance vs. Delivery Time?

Reassignment Rate & Time?

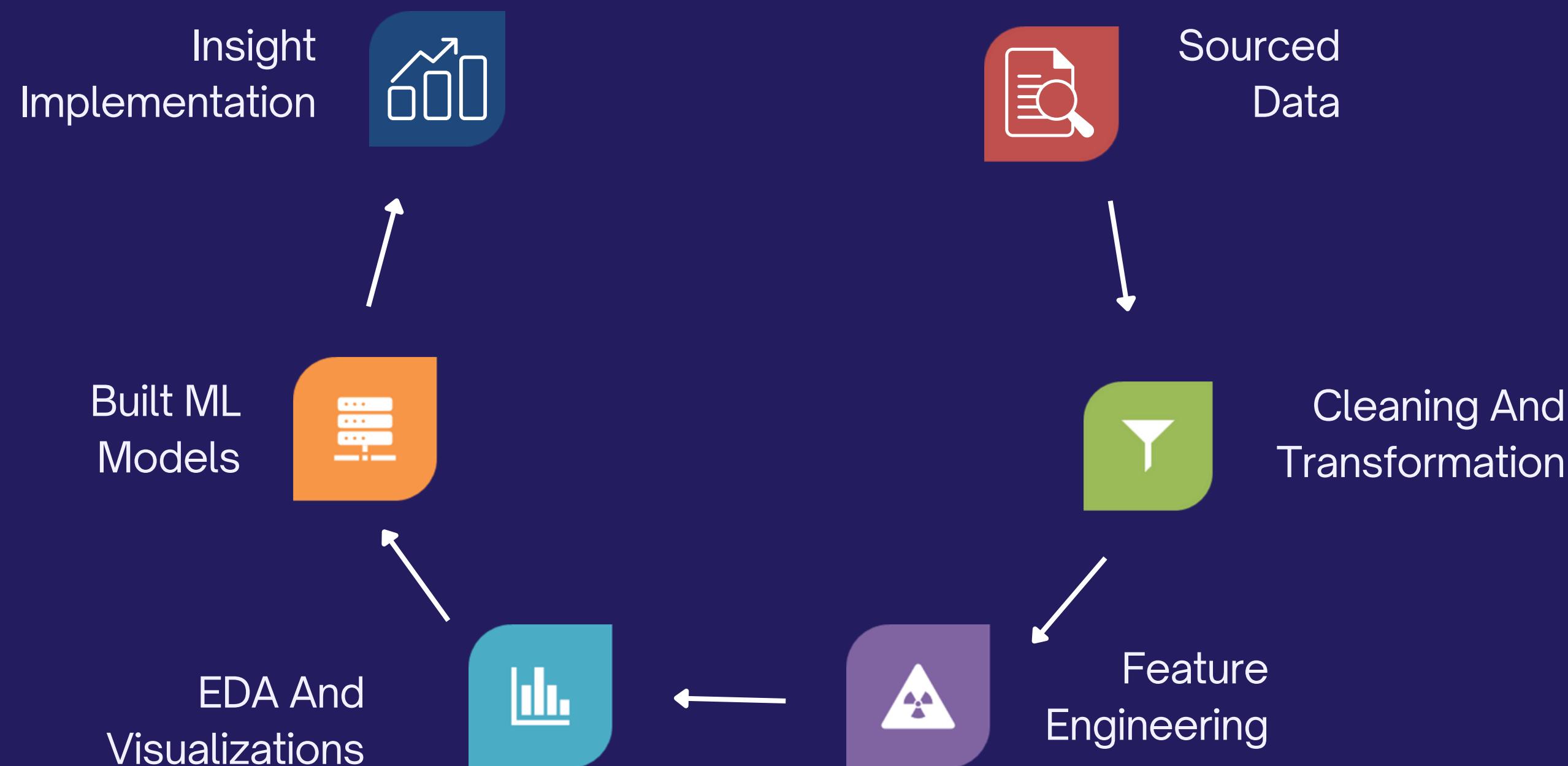
Process Bottlenecks?

Avg. Delivery Time & Rider Variation?

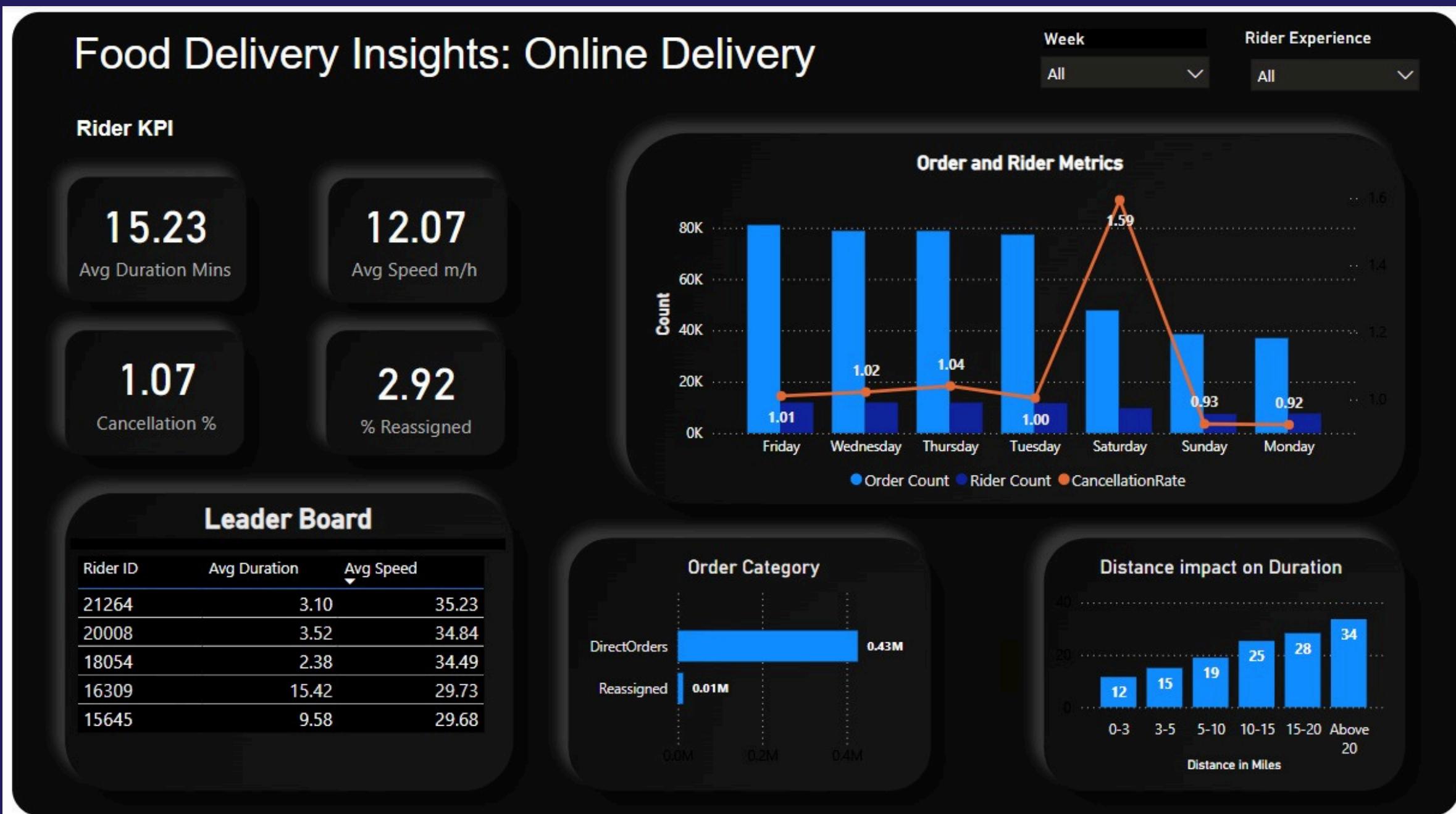
Cancellations vs. Delivery?



Methodology



Dashboard



Models

S.No	Model	Accuracy of Prediction	Recommendation
1	Prophet	85%	Strong Signal For Operations Forecasting
2	XGBOOST	36%	
3	Arima	75%	

Insights

Distance vs. Delivery Time?

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Reassignment Rate & Time?

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Process Bottlenecks?

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Insights

Avg. Delivery Time & Rider Variation?

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Cancellations vs. Delivery?

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Recommendations



- Increase riders in peak hours
- Optimize assignment in low-efficiency areas
- Use top riders' strategy to train others
- Predictive routing system



Conclusion



- Delivery optimization is feasible using data-driven insights.
- Modeling and dashboards support better planning.

Future Work



Real-time tracking integration



Add weather/traffic features



Rider satisfaction insights

References APA

Thank You

