

SIPPING ON INSIGHTS

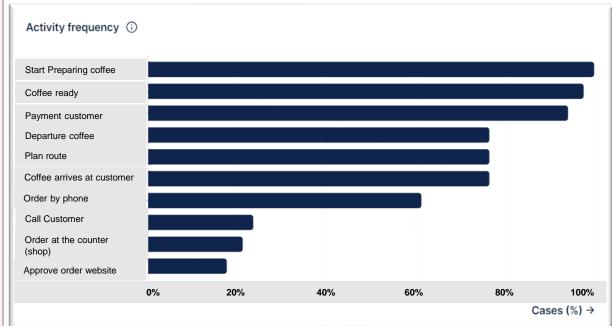
Name: Isha Dipesh Prajapati

Date: 25-10-2024

Start Start order website 7 min **Approve order website** 27 sec Receive order website Order at the counter Order by phone 5 min 1 min 2 min 1 3 min Start preparing coffee 11 min Call customer Coffee ready 3 min I 5 min Plan route 3 min Departure coffee 5 min -----Slow process (Bottlenecks) Coffee arrives at customer **New Opportunity** 20 min **Payment Customer**

End

DESCRIPTIVE ANALYSIS





Average Activity Occurred

7

- Automate the website order verification process to streamline approvals, minimize delays, and boost efficiency
- Streamline the coffee preparation process
- Reduce customer payment processing time



PREDICTIVE ANALYSIS

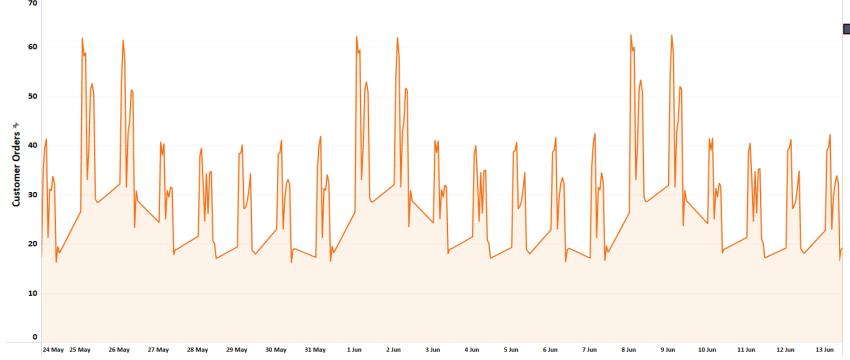


Offer discounts to customers to visit during off-peak hours



Optimize staffing from 8-10 AM, especially on weekends, to meet higher demand.

Datetime Forecast Data for the Next 3 Weeks





	Weekdays		
Off Peak Day			Peak Day
•		Weekends	

Error Statistics	Date Value	Time Value
Mean Absolute Error (MAE)	1.22	4.48
Root Mean Squared Error (RMSE)	1.53	5.51

MAE :

Average of how far off our predictions are from actuals

RMSE:

Similar to MAE but gives more importance to larger errors

Highest Number of Orders Predicted on

0-0

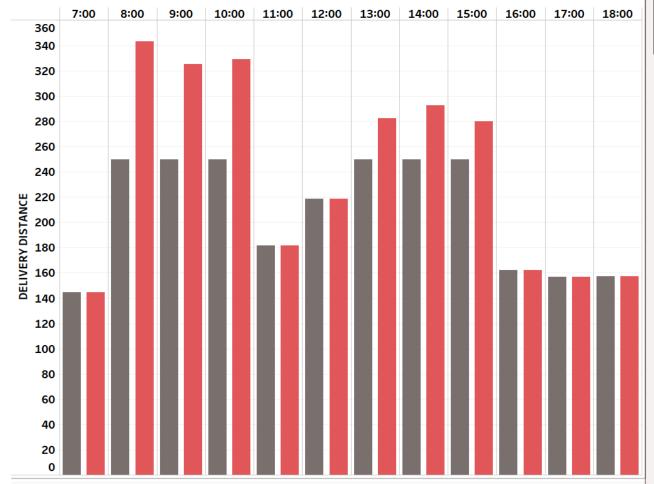
08 Jun, 2019

Courier Hiring Cost

Total Daily Cost: **€1,512.75**

Couriers per Day: 101

The daily courier cost has been minimized while ensuring all deliveries within the 10-mile radius are completed on time. Though, deliveries between 8:00 to 10:00 and 13:00 to 15:00 doesn't meet customer demand.



PRESCRIPTIVE ANALYSIS

Distance covered as per courier availabilityDelivery Distance to be covered

Datetime	Number of Courier
08-06-2019 07:00	6
08-06-2019 08:00	10
08-06-2019 09:00	10
08-06-2019 10:00	10
08-06-2019 11:00	7
08-06-2019 12:00	9
08-06-2019 13:00	10
08-06-2019 14:00	10
08-06-2019 15:00	10
08-06-2019 16:00	6
08-06-2019 17:00	6
08-06-2019 18:00	6

Optimizing Courier Allocation to Meet Peak Demand

Peak Demand: Customer demand spikes between **8:00-10:00** and **13:00-15:00**.

Current Allocation: Currently, only **10 couriers** are assigned.

Recommended Adjustment: Increase the threshold of number of couriers during the peak times mentioned above to meet customer needs effectively.

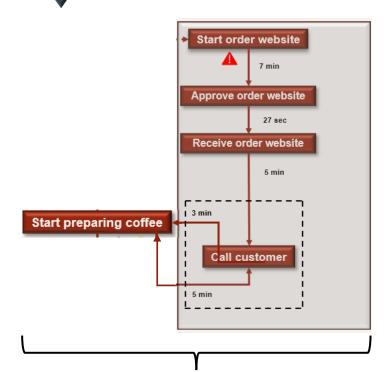
Outcome: Aligning courier availability with peak demand will enhance customer satisfaction and operational efficiency.



SUMMARY

01

Descriptive Analysis



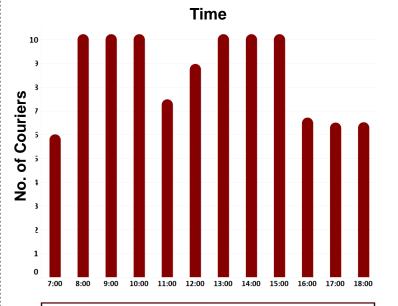
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AVERAGE PROCESS THROUGHPUT TIME



O3 Prescriptive Analytics





Total Daily Cost: €1,512.75

Couriers per Day: 101

Increase couriers during peak hours (8:00 – 10:00 and 13:00 – 15:00) to optimize operations, ensuring efficient demand handling and improved customer satisfaction.