

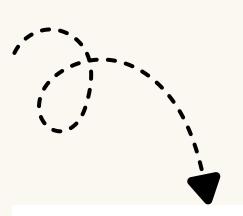
"Ride-Sharing Service Analysis of Pathao

Nahidul Islam



"Ride Time Segment Analysis"

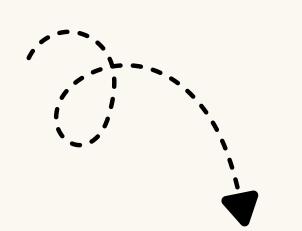
```
1 v SELECT
       CASE
           WHEN HOUR(ride start time) BETWEEN 5 AND 11 THEN 'Morning (5 AM - 11 AM)'
           WHEN HOUR(ride_start_time) BETWEEN 12 AND 16 THEN 'Afternoon (12 PM - 4 PM)'
           WHEN HOUR(ride_start_time) BETWEEN 17 AND 20 THEN 'Evening (5 PM - 8 PM)'
           WHEN HOUR(ride_start_time) BETWEEN 21 AND 23 THEN 'Night (9 PM - 11 PM)'
           ELSE 'Late Night (12 AM - 4 AM)' -- 제세치©
       END AS time_of_day_segment,
       COUNT(ride id) AS total rides in segment
   FROM
0
       rides
11
   GROUP BY
       time_of_day_segment
   ORDER BY
15
       total rides in segment DESC;
```



```
Morning (5 AM - 11 AM) 29.3%
Late Night (12 AM - 4 AM) 21.0%
Afternoon (12 PM - 4 PM) 20.7%
Evening (5 PM - 8 PM) 17.0%
Night (9 PM - 11 PM) 12.0%
```

2:Total Ride with week

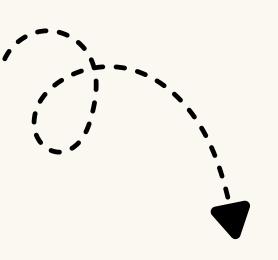
```
SELECT
  dayname(ride_start_time) AS Day_name,
  count(ride_id) AS total_ride
FROM
  rides
GROUP BY
  Day_name
ORDER BY
  total_ride DESC;
```

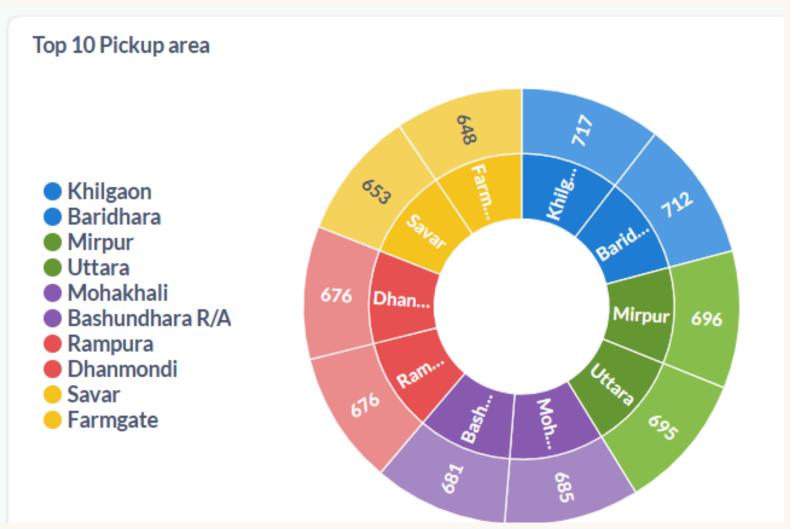


Friday	1,482
Thursday	1,463
Monday	1,430
Sunday	1,419
Tuesday	1,406
Saturday	1,405

3. Top 10 Pickup Area

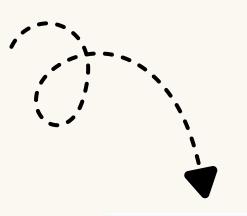
```
-- - Top 10 Pickup_Area
SELECT
   pickup_area,
   count(ride_id) AS total_ride
 FROM
   rides
 GROUP BY
   pickup_area
 ORDER BY
   total_rides DESC
 LIMIT
   10;
```





4. Average Fare by Time Segment

```
SELECT
   CASE
        WHEN HOUR(ride_start_time) BETWEEN 5 AND 11 THEN 'Morning'
        WHEN HOUR(ride_start_time) BETWEEN 12 AND 16 THEN 'Afternoon'
        WHEN HOUR(ride_start_time) BETWEEN 17 AND 20 THEN 'Evening'
        WHEN HOUR(ride_start_time) BETWEEN 21 AND 23 THEN 'Night'
        ELSE 'Late Night'
    END AS time segment,
    ROUND(AVG(fare_bdt), 2) AS avg_fare
FROM
    rides
where ride status = 'Completed'
GROUP BY
    time_segment
ORDER BY
    avg fare DESC;
```

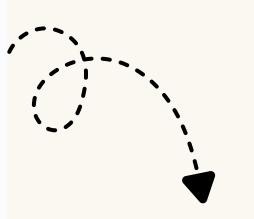


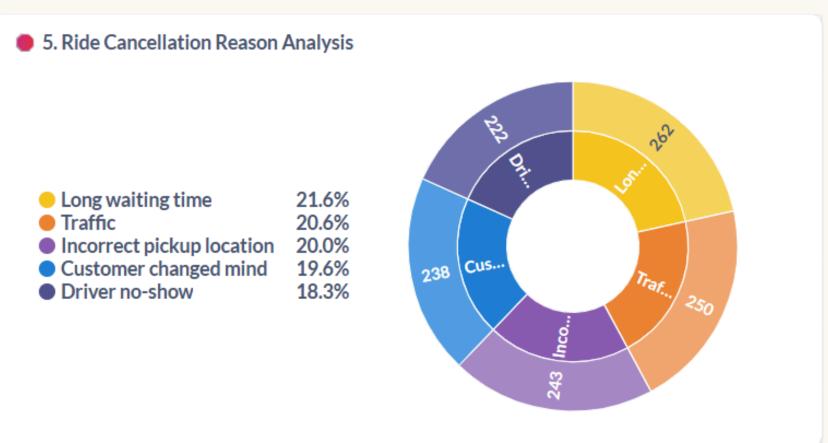
time_segment	avg_fare
Night	336.67
Afternoon	333.43
Morning	332.37
Evening	331.53
Late Night	329.99

5. Ride Cancellation Reason Analysis

```
-- • 5. Ride Cancellation Reason Analysis

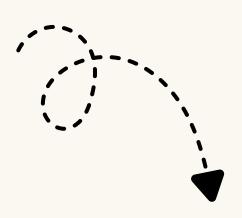
SELECT
cancellation_reason,
COUNT(ride_id) AS cancelled_rides
FROM
rides
WHERE
ride_status = 'Canceled'
GROUP BY
cancellation_reason
ORDER BY
cancelled_rides DESC;
```





§ 6. Highest Earning Areas

```
-- ¿ 2. Highest Earning Areas (Pickup-wise Total Fare SELECT pickup_area, SUM(fare_bdt) AS total_earning FROM rides
WHERE ride_status = 'Completed'
GROUP BY pickup_area
ORDER BY total_earning DESC
LIMIT
5;
```

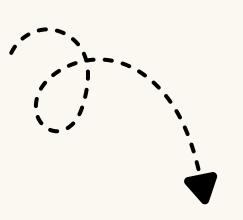


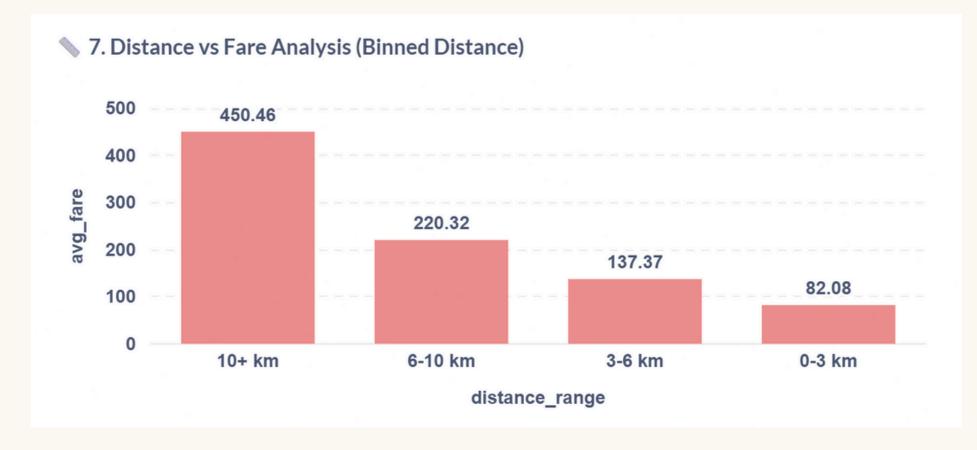
pickup_area	total_earning
Khilgaon	211,556.25
Mirpur	204,691.77
Baridhara	203,435.72
Mohakhali	201,942.81
Rampura	198,510.67



7.Distance vs Fare Analysis

```
-- 🖠 7. Distance vs Fare Analysis (Binned Distance)
SELECT
    CASE
        WHEN distance_km < 3 THEN '0-3 km'
        WHEN distance km BETWEEN 3 AND 6 THEN '3-6 km'
        WHEN distance_km BETWEEN 6 AND 10 THEN '6-10 km'
        ELSE '10+ km'
   END AS distance_range,
    ROUND(AVG(fare_bdt), 2) AS avg_fare,
    COUNT(ride id) AS total rides
FROM
    rides
where ride_status = 'Completed'
GROUP BY
    distance_range
ORDER BY
    total rides DESC;
```





* 8. Customer Loyalty (Top 10 Most Frequent Customers)

```
SELECT

customer_id,

COUNT(ride_id) AS total_rides,

ROUND(AVG(customer_rating), 2) AS avg_rating

FROM

rides

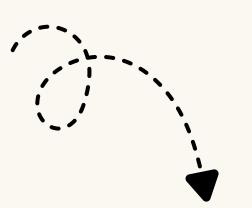
GROUP BY

customer_id

ORDER BY

total_rides DESC

LIMIT 10;
```

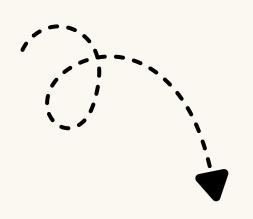


8. Customer L	oyalty (Top 10 Most I	Frequent Custom
customer_id	total_rides	avg_rating
C_2212	13	3.84
C_3960	13	4.18
C_2892	12	3.89
C_2374	11	4.07
C_2497	11	3.9
C_2225	11	3.95
C_2029	11	4.24
C_4011	11	3.81
C_3664	11	4.13
C_2061	10	4.22

10 rows

9. Payment Method Preference

```
SELECT
   payment_method,sum(fare_bdt) as Total_bdt,
   COUNT(ride_id) AS total_rides
FROM
   rides
where ride_status = 'Completed'
GROUP BY
   payment_method
ORDER BY
   total_rides DESC;
```



payment_method	Total_bdt	total_rides +
Cash	603,137.71	1,794
Nagad	584,437.81	1,776
bKash	581,816.79	1,769
Pathao Pay	587,680.49	1,740
Card	563,622.6	1,706

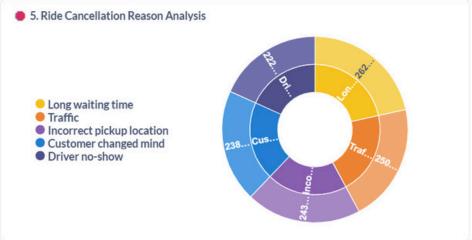
MetaBase Analysis

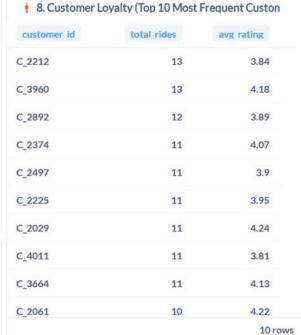
Project Publication Link



Patho Data Analysis

"Ride-Sharing Service Analysis of Pathao





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	400					
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	100		-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			82.08
	0	10+ km	6	-10 km	3-6 km	0-3 km



Top 10 Pickup area	6A8:
 Khilgaon Baridhara Mirpur Uttara Mohakhali Bashundhara R/A Rampura Dhanmondi Savar Farmgate 	676: Dhan 696: Mirp 696:

payment_method	Total_bdt	total_rides
Cash	603,137.71	1,794
Nagad	584,437.81	1,776
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Pathao Pay	587,680.49	1,740
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	300					44,447,44	- 14-0-0	-0
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	0		Night	A 64-	rnoon Mo	orning Eve	ning Late	Night

Work Experience

Pathao Ride-Sharing Service Analysis

1:This report summarizes key insights from the Pathao ride-sharing service data, focusing on fare structures, customer behavior, and operational trends.

2:Fare Structure: Average fares are directly proportional to distance, with rides over 10 km averaging 450.46 BDT, while rides under 3 km average 82.08 BDT. Fares remain largely consistent across different times of the day.

3: Popular Pickup Areas: Khilgaon (717 rides), Baridhara (712 rides), and Mirpur (696 rides) are identified as the top three most frequent pickup locations.

4:Ride Cancellations: "Long waiting time" (262 instances) and "Traffic" (250 instances) are the primary reasons for ride cancellations, followed by "Incorrect pickup location" (243 instances).

5:Customer Loyalty: The top frequent customers, such as C_2212 and C_3960, have completed 13 rides each, indicating a segment of loyal users with average ratings ranging from 3.81 to 4.24.

6:Payment Preferences: Cash is the most preferred payment method, accounting for 1,794 total rides and the highest total transaction value.

Thank You