

Analysis of Transportation Platforms in Mexico (Uber and DiDi)

Autor: Yair Carrillo Maldonado

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Descripción:

This analysis explores the growth, user preferences, and behavior on mobility platforms such as Uber and DiDi in Mexico, using real data from Sensor Tower and Statista.

```
In [8]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from IPython.display import display, Markdown

sns.set(style="whitegrid")
plt.rcParams['figure.figsize'] = (12, 6)

df = pd.read_csv('mobility.csv')
```

Dataset Description

The dataset contains information about transportation platforms in Mexico with variables such as:

- Platform
- Year
- Active Users in Mexico
- Market Share (%)
- Average Trips per User (wekly)

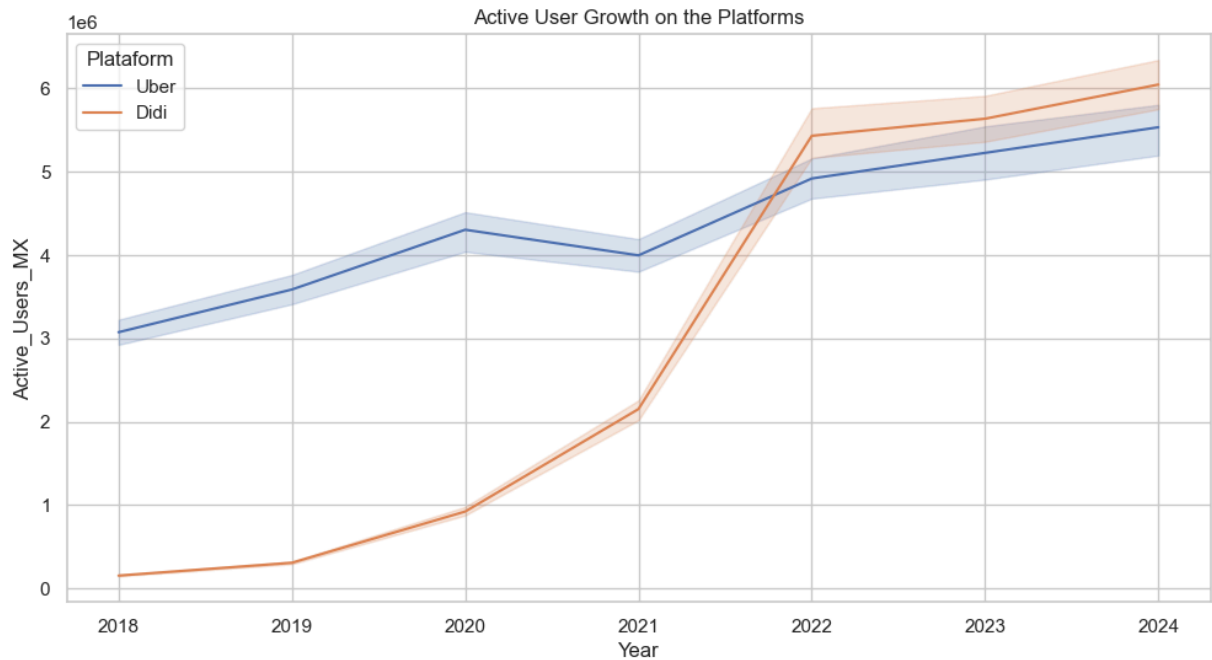
```
In [10]: display(df.head())
display(df.describe().round(0).astype(int))
```

| | Year | Quarter | Plataform | Active_Users_MX | Downloads_Per_Week | Market_Share | Avg_Trip |
|---|------|---------|-----------|-----------------|--------------------|--------------|----------|
| 0 | 2018 | Q1 | Uber | 3000000 | 150000 | 95 | |
| 1 | 2018 | Q1 | Didi | 150000 | 180000 | 5 | |
| 2 | 2018 | Q2 | Uber | 2850000 | 142500 | 95 | |
| 3 | 2018 | Q2 | Didi | 142500 | 171000 | 5 | |
| 4 | 2018 | Q3 | Uber | 3150000 | 157500 | 95 | |

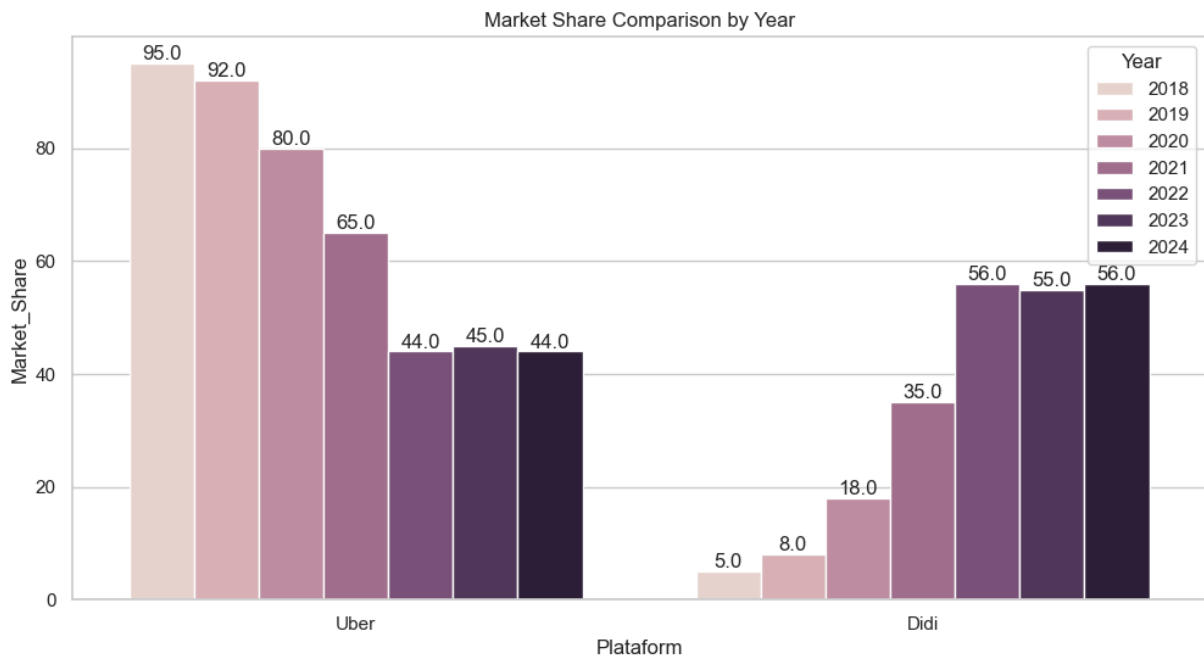
| | Year | Active_Users_MX | Downloads_Per_Week | Market_Share | Avg_Trips_Per_User_Per_W |
|-------|------|-----------------|--------------------|--------------|--------------------------|
| count | 56 | 56 | 56 | 56 | |
| mean | 2021 | 3664375 | 169125 | 50 | |
| std | 2 | 2003825 | 18112 | 27 | |
| min | 2018 | 142500 | 142500 | 5 | |
| 25% | 2019 | 2178750 | 155625 | 35 | |
| 50% | 2021 | 4147500 | 168000 | 50 | |
| 75% | 2023 | 5313750 | 182250 | 65 | |
| max | 2024 | 6490000 | 198000 | 95 | |



```
In [17]: plt.figure(figsize =(12,6))
ax=sns.lineplot(data=df, x='Year', y='Active_Users_MX', hue='Plataform')
plt.title ('Active User Growth on the Platforms')
plt.show()
```

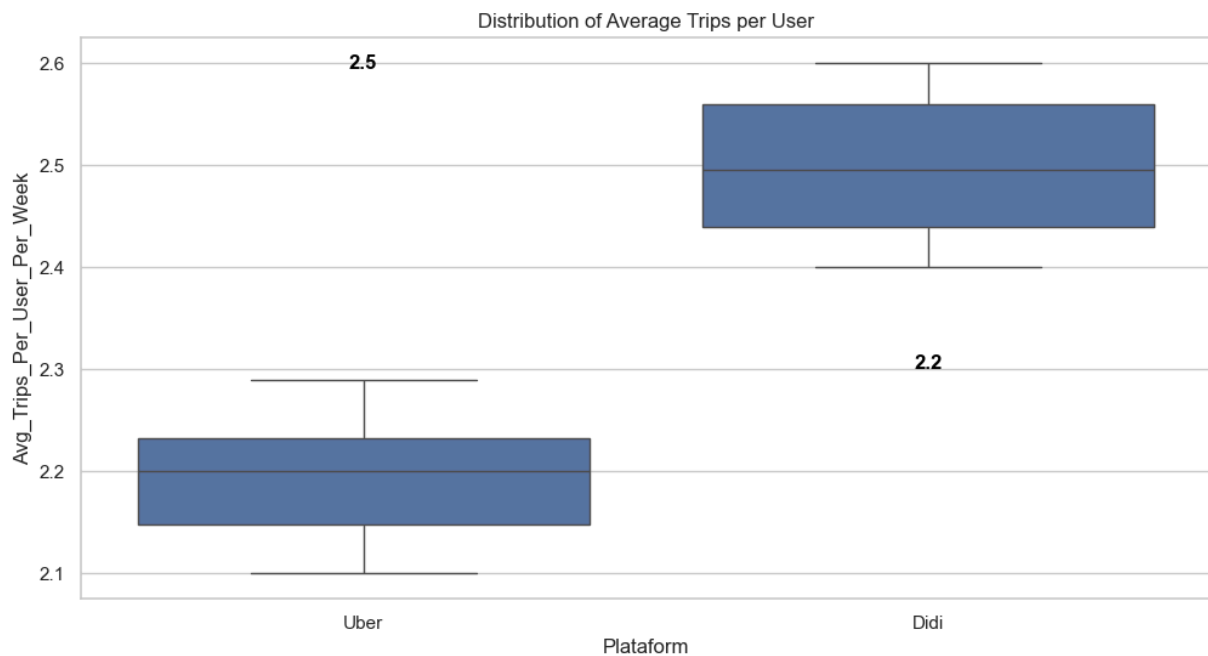


```
In [19]: plt.figure(figsize=(12,6))
ax = sns.barplot(data= df, x='Plataform', y='Market_Share', hue= 'Year')
plt.title('Market Share Comparison by Year')
for container in ax.containers:
    ax.bar_label(container,fmt='%.1f', label_type='edge')
plt.show()
```



```
In [22]: ax=sns.boxplot(data=df, x='Plataform', y='Avg_Trips_Per_User_Per_Week')
plt.title('Distribution of Average Trips per User')
medians = df.groupby('Plataform')['Avg_Trips_Per_User_Per_Week'].median().values
for tick, median in zip(ax.get_xticks(), medians):
    ax.text(tick, median + 0.1, f'{median:.1f}',
            horizontalalignment='center', color='black', weight='bold')
plt.show
```

Out[22]: <function matplotlib.pyplot.show(close=None, block=None)>



```
In [26]: Tabla_resumen = df.groupby('Plataform')['Avg_Trips_Per_User_Per_Week'].describe()[[
Tabla_resumen = Tabla_resumen.rename(columns={
    '25%' : 'Q1 (25%)',
    '50%' : 'Median',
    '75%' : 'Q3 (75%)',
```

```
'min' : 'Minimum',
'max' : 'Maximum',
})

print(Tabla_resumen)
```

| | Minimum | Q1 (25%) | Median | Q3 (75%) | Maximum |
|-----------|---------|----------|--------|----------|---------|
| Plataform | | | | | |
| Didi | 2.4 | 2.4400 | 2.495 | 2.5600 | 2.60 |
| Uber | 2.1 | 2.1475 | 2.200 | 2.2325 | 2.29 |

```
In [30]: referencias = """
### Data Sources Used

- Sensor Tower (2024). Top 5 Carpooling and Ridesharing Apps Performance in Me
[https://sensortower.com/blog/2024-q3-unified-top-5-carpooling%20and%20ridesharin

- Sensor Tower (2024). Navigating LatAm's Ride-Hailing Landscape: Growth, Comp
[https://sensortower.com/blog/navigating-lat-ams-ride-hailing-landscape-growth-co

- Statista (2025). Shared Mobility Statistics and Facts.
[https://www.news.market.us/shared-mobility-statistics](https://www.news.market.u
"""
display(Markdown(referencias))
```

Data Sources Used

- **Sensor Tower** (2024). *Top 5 Carpooling and Ridesharing Apps Performance in Mexico Q3 2024*.
<https://sensortower.com/blog/2024-q3-unified-top-5-carpooling%20and%20ridesharing%20apps-units-mx-63e3708de1714cfff1489d09>
- **Sensor Tower** (2024). *Navigating LatAm's Ride-Hailing Landscape: Growth, Competition, and User Engagement Strategies*.
<https://sensortower.com/blog/navigating-lat-ams-ride-hailing-landscape-growth-competition-and-user-engagement-strategies>
- **Statista** (2025). *Shared Mobility Statistics and Facts*.
<https://www.news.market.us/shared-mobility-statistics>