
Data visualization

Project week 4 :

Power consumed for EV charging

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Description of our dataset

Data on electric vehicles
charging

- 3400 rows
- 24 columns
- Data about the charging sessions (start time, end, power consumed, price paid, location, managerial profile etc)

Process

- Data exploration
- Data cleaning :
 - one column dropped
 - 59 outliers dropped
- Brainstorm : list of charts by main interesting items and repartition of the charts
- Charts production

Challenges and improvements

- Challenges :
 - Lack of context for some variables
 - Pertinent insights
 - Radar chart
 - Stacked bar chart
 - Improvements:
 - Graphic style could be better
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Our analysis plan

Analysis of correlations

Analysis of the charge time

Analysis of the amount paid

Analysis of the effect of the managerial status
on chargings

Analysis of stations

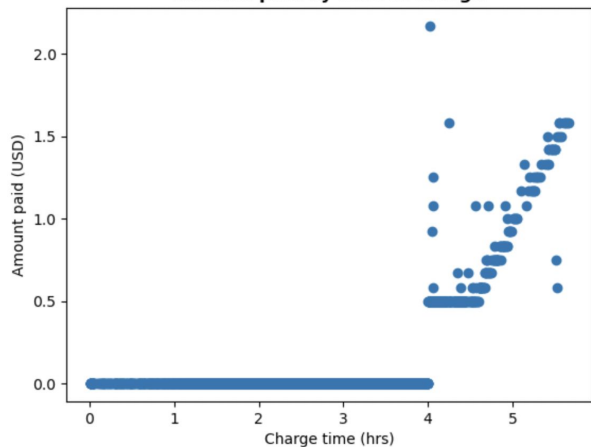
Analysis of the location ID

Analysis of platform and facility categories

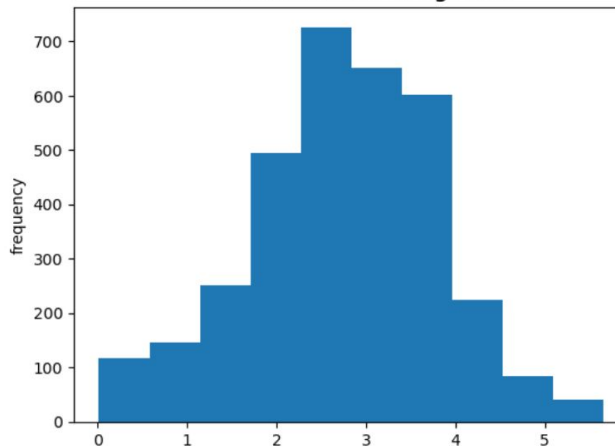
Analysis of the effect of the managerial status
on chargings

EV charging dashboard :

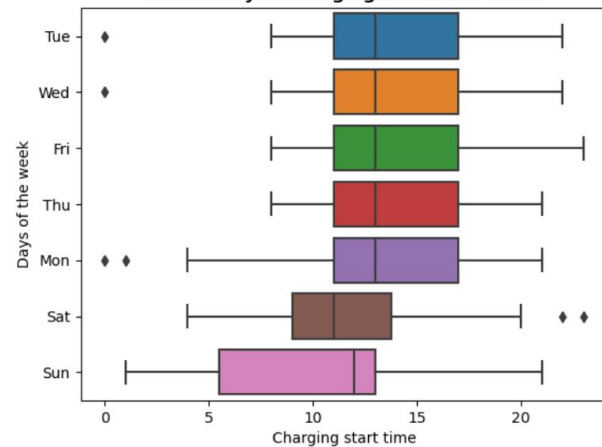
Amount paid by time of charge



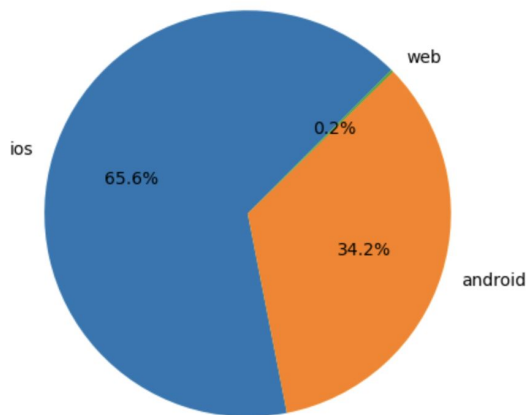
Distribution of the charge time



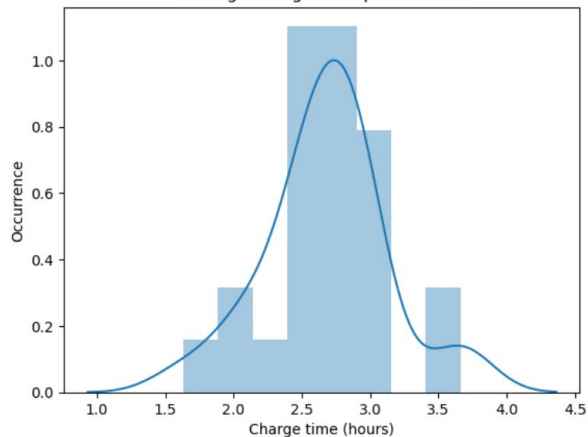
Periodicity of charging hours in a week



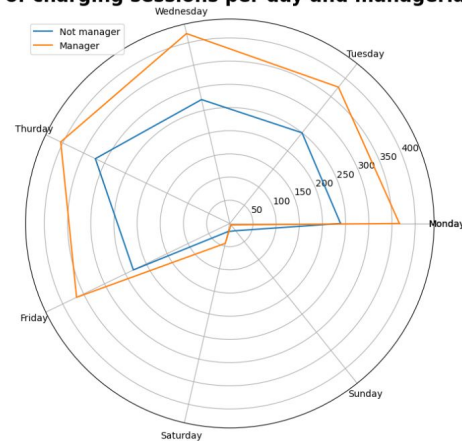
Users repartition by platform

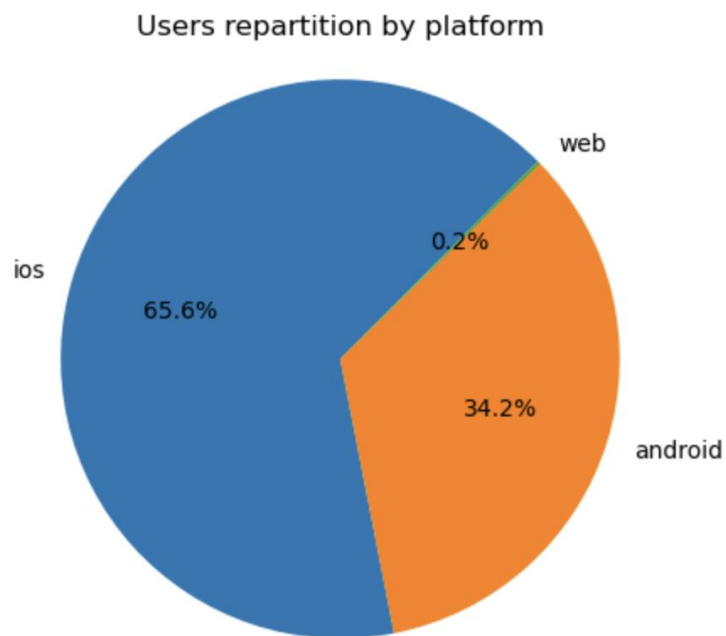
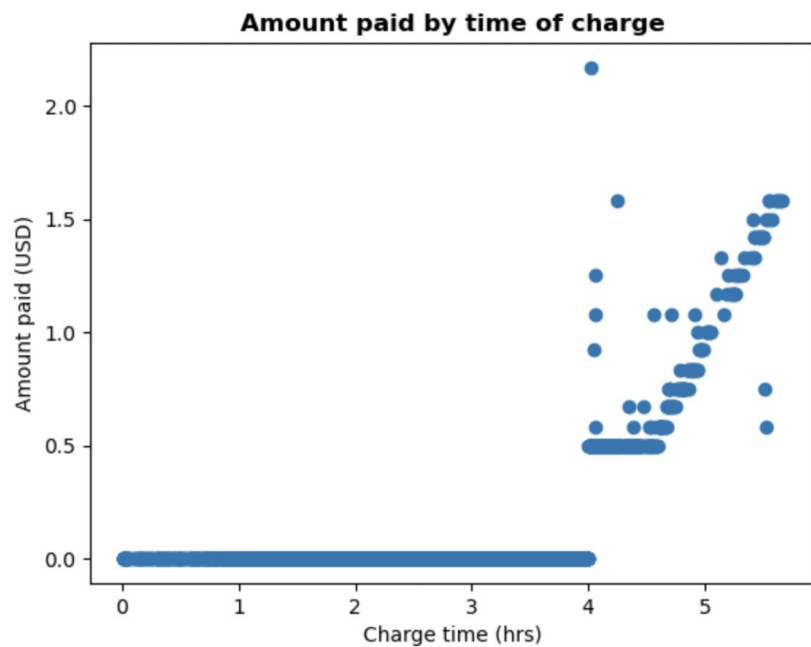


Average charge time per location

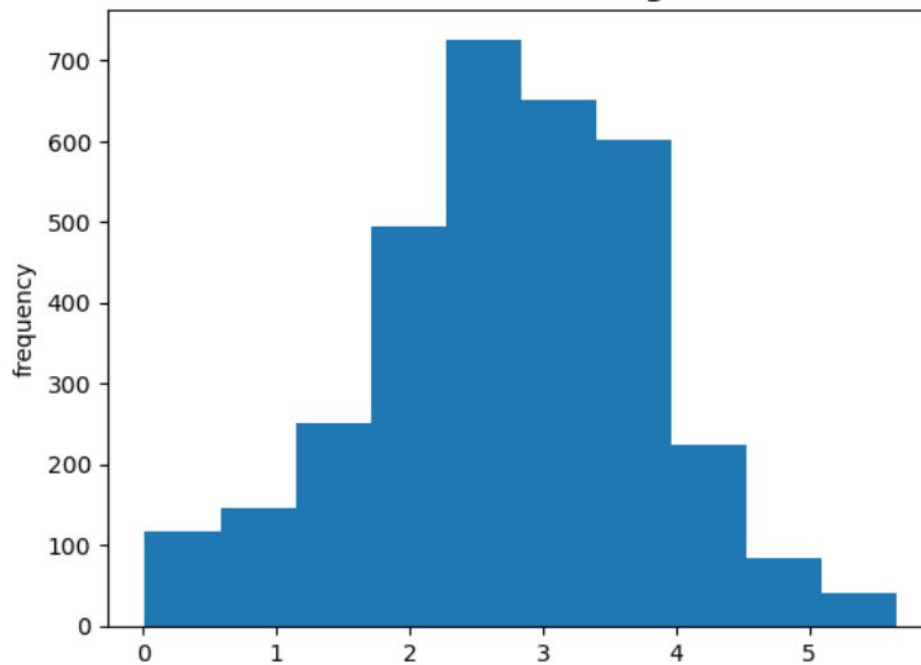


Number of charging sessions per day and managerial status

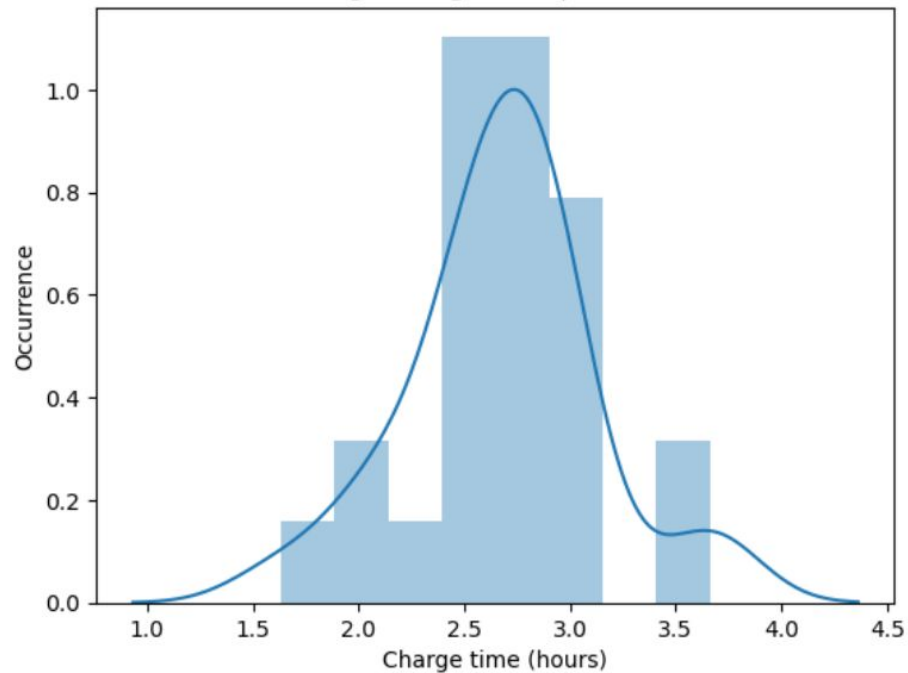




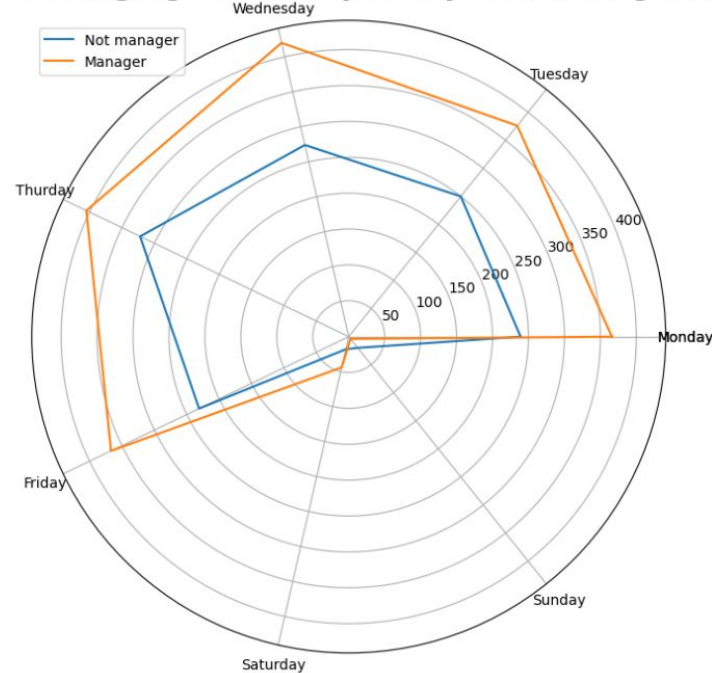
Distribution of the charge time



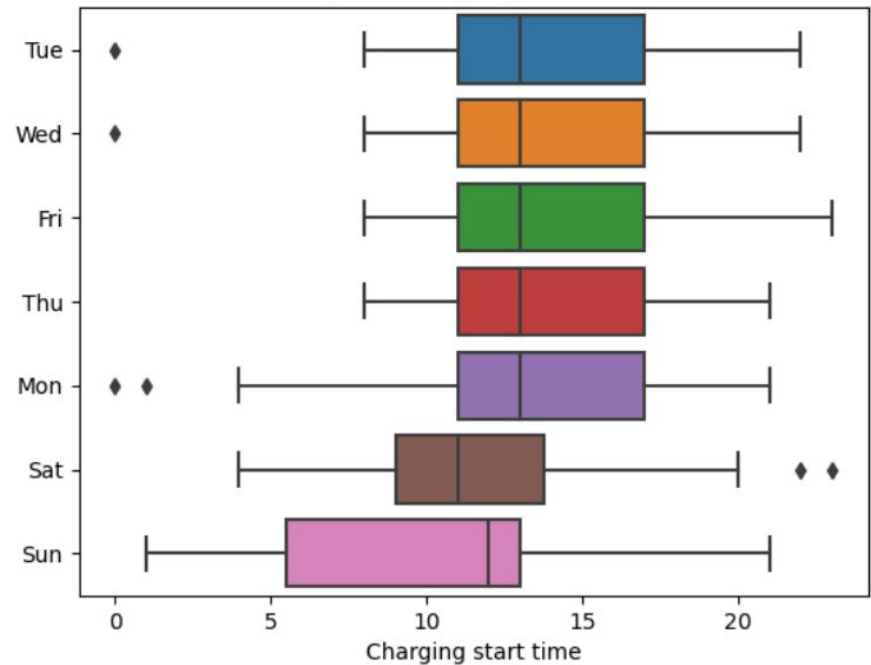
Average charge time per location



Number of charging sessions per day and managerial status



Periodicity of charging hours in a week



Locations ID by number of stations



Locations ID by number of chargings

