

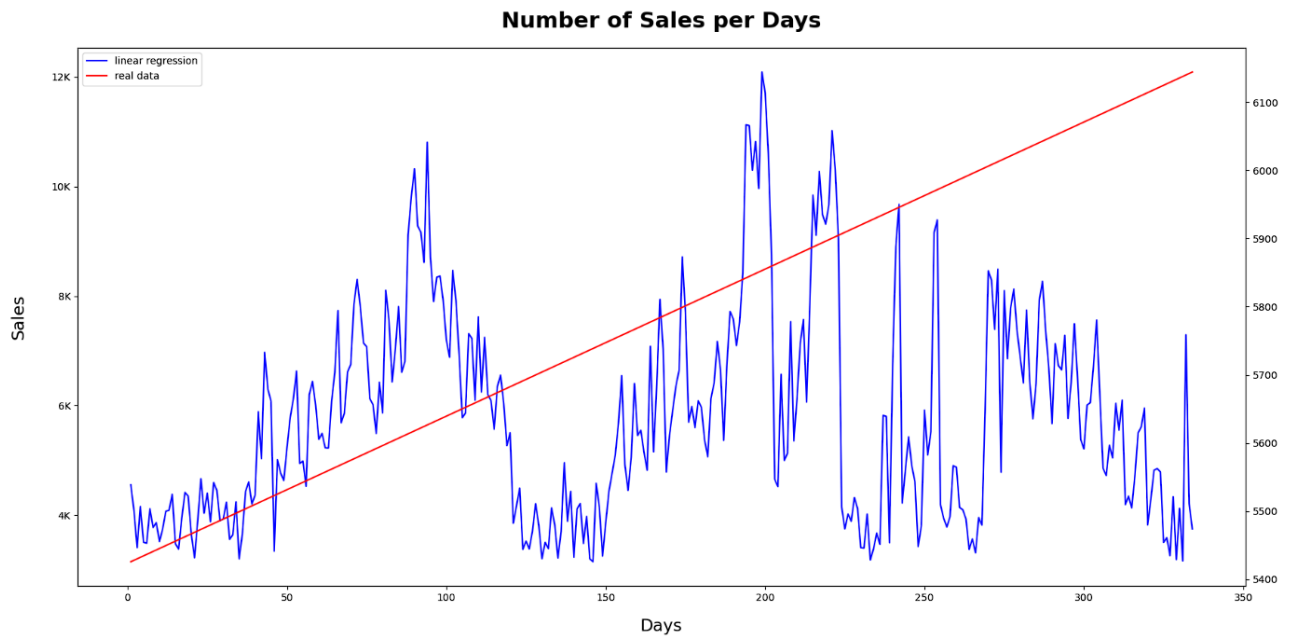
PAPATYALAR

Muhammed Ali Karslı - Efe Genç - Ökkeş Donbaloğlu (first year engineering students)

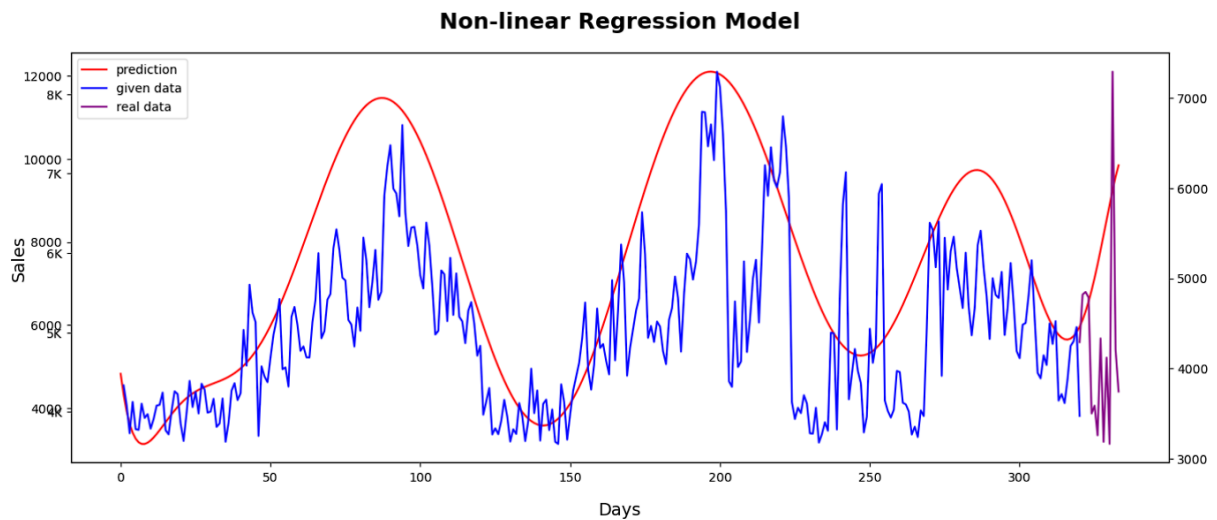
Codes are explained in the code as comments. Important graphs are attached in the zip.

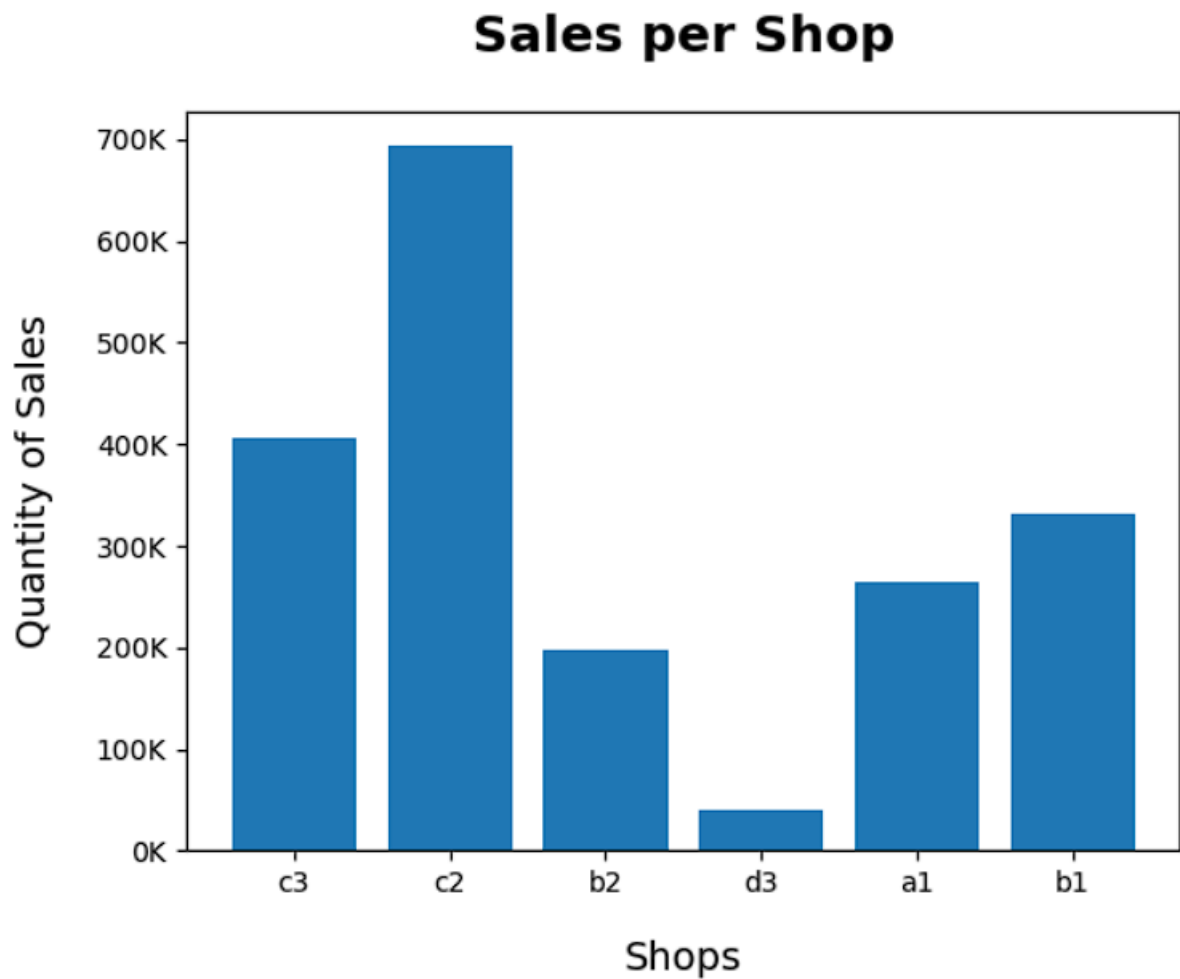
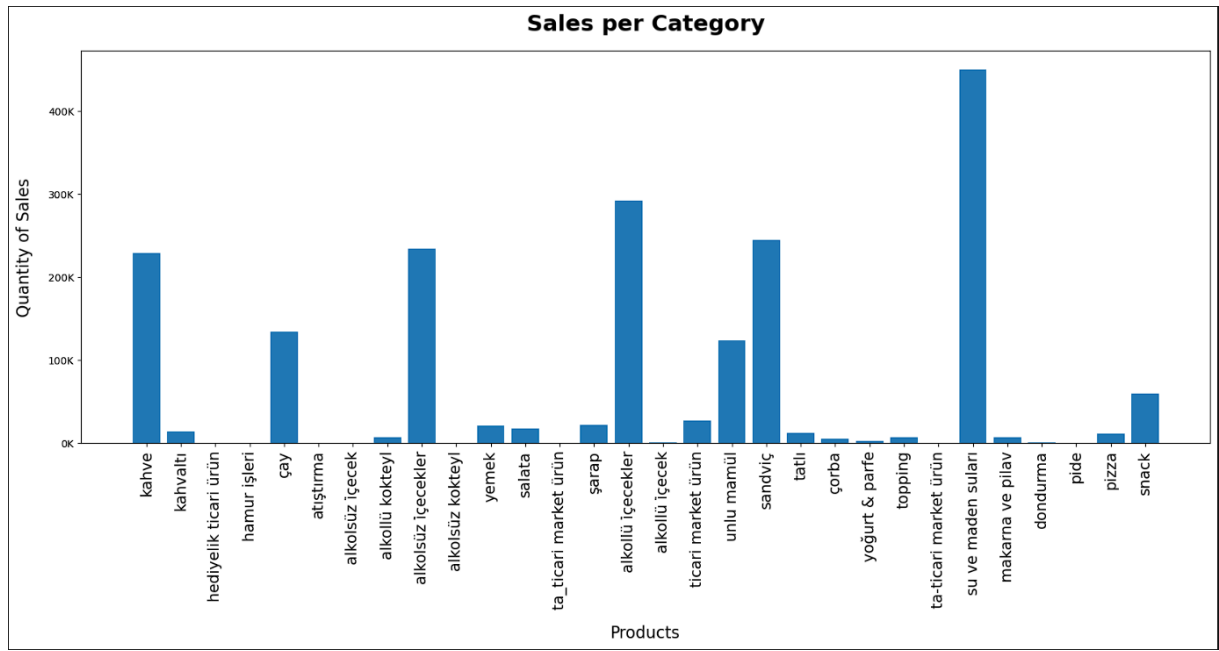
We analysed code by making several plots which inspects sales per shops, time, or categories.

Firstly, we developed a linear regression model, we decided that it is not effective to determine the future of sales. The R-squared value was 0.0116.



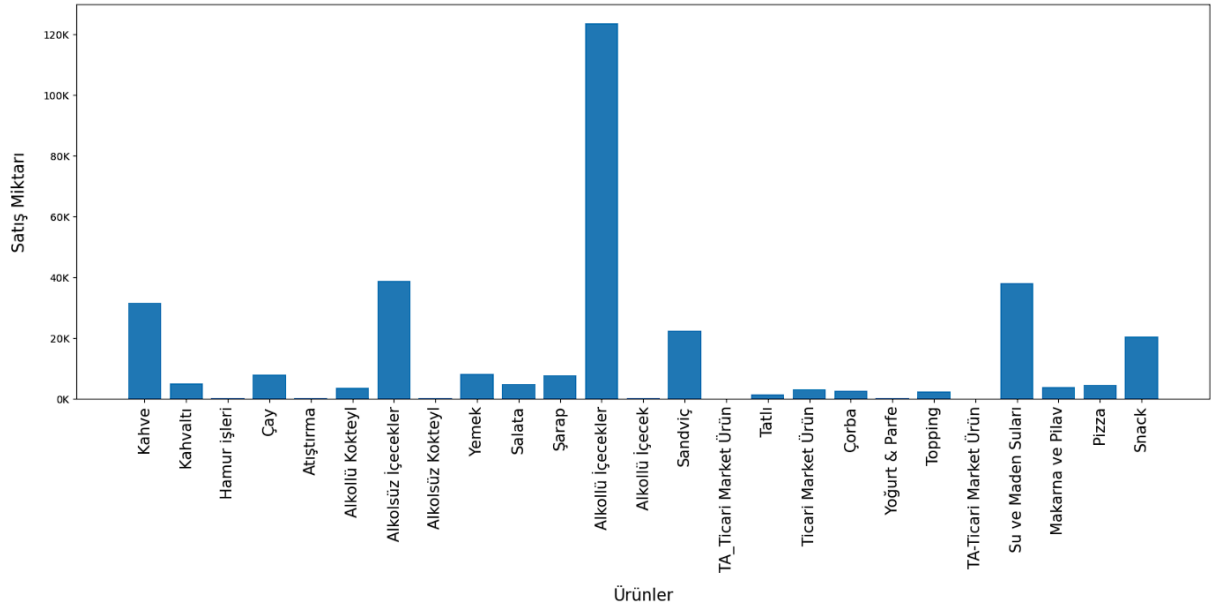
Afterwards we trained a non-linear, polynomial regression model. We tuned it to 7. Degree and trained with the data of 320 days. The model has gradely estimated the last 15 days. The R value was 0.51.



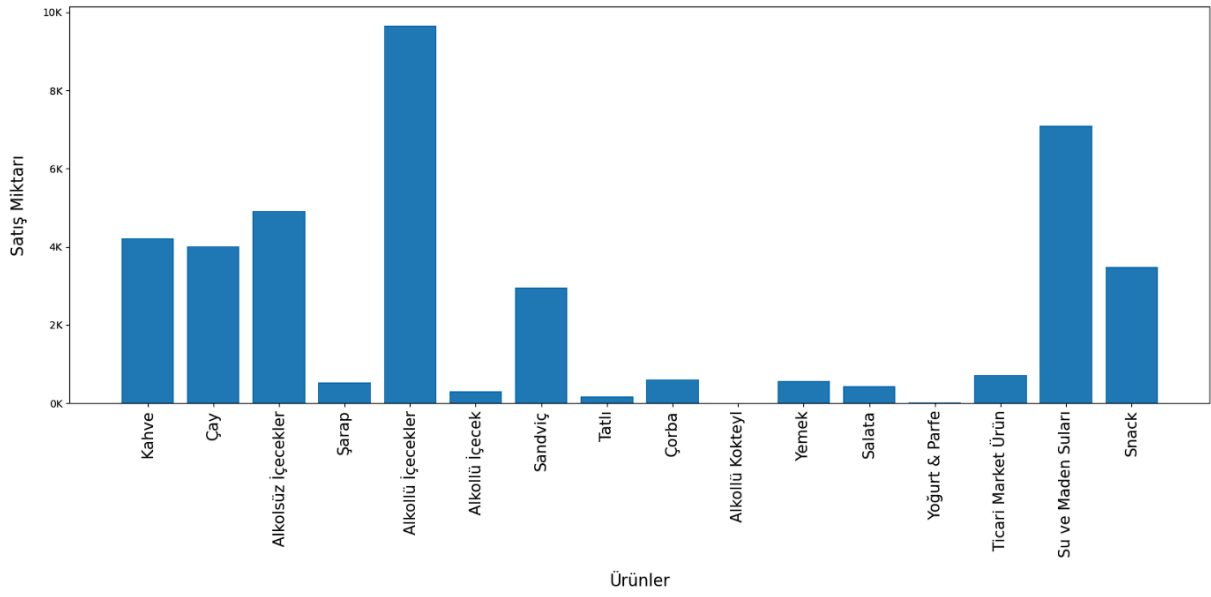


Sales per categories for each shop

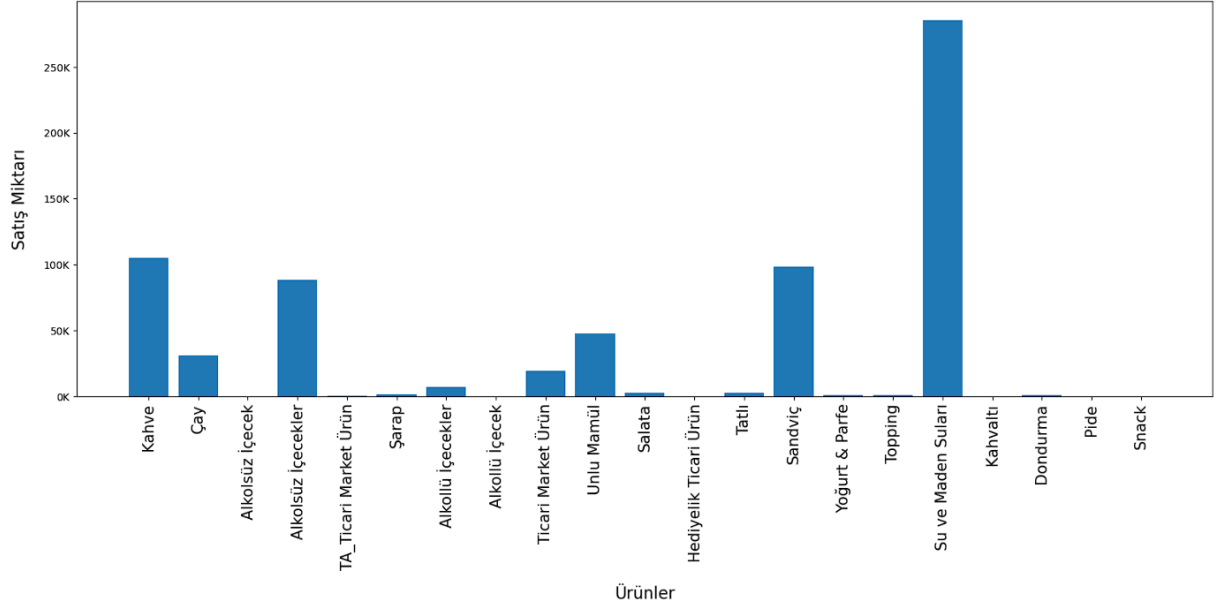
B1 mağazası



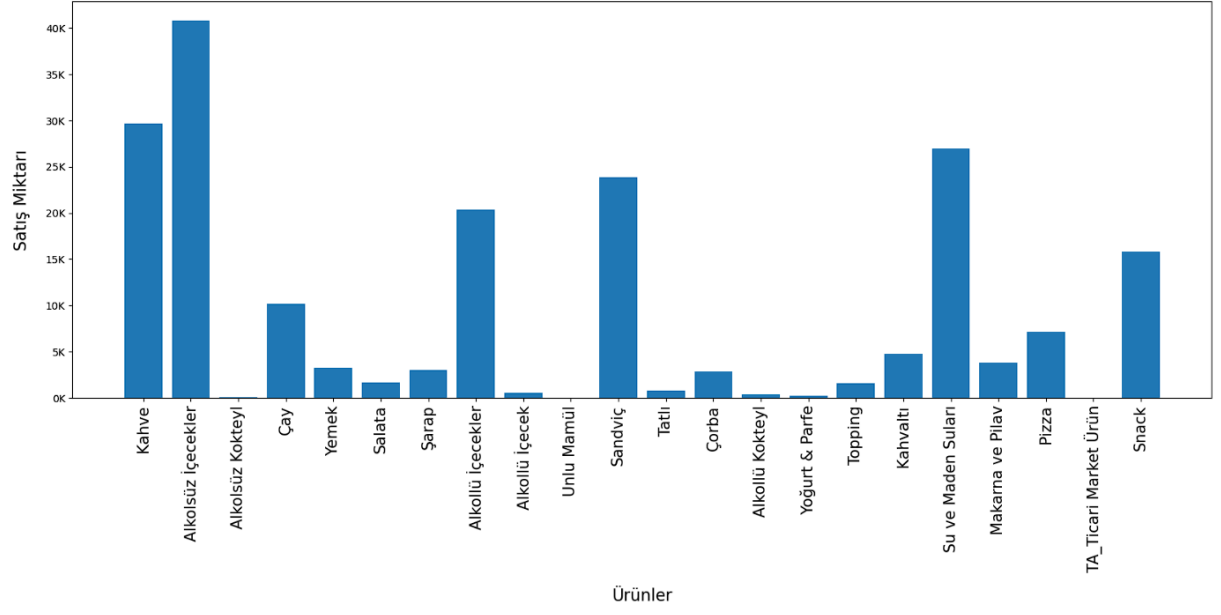
D3 mağazası



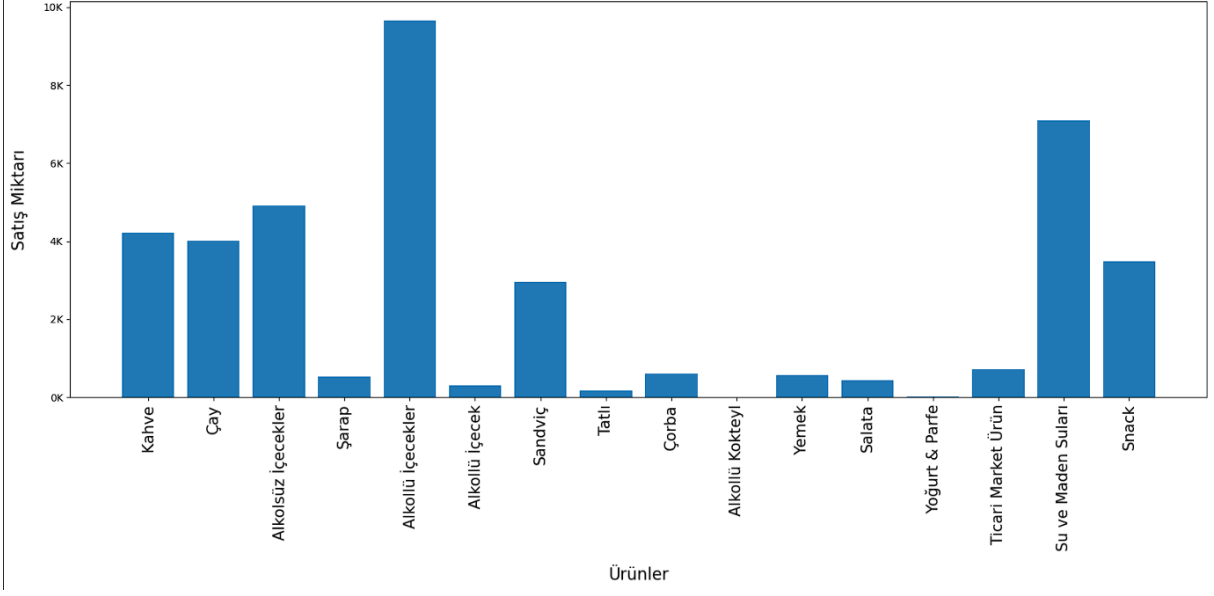
C2 mağazası



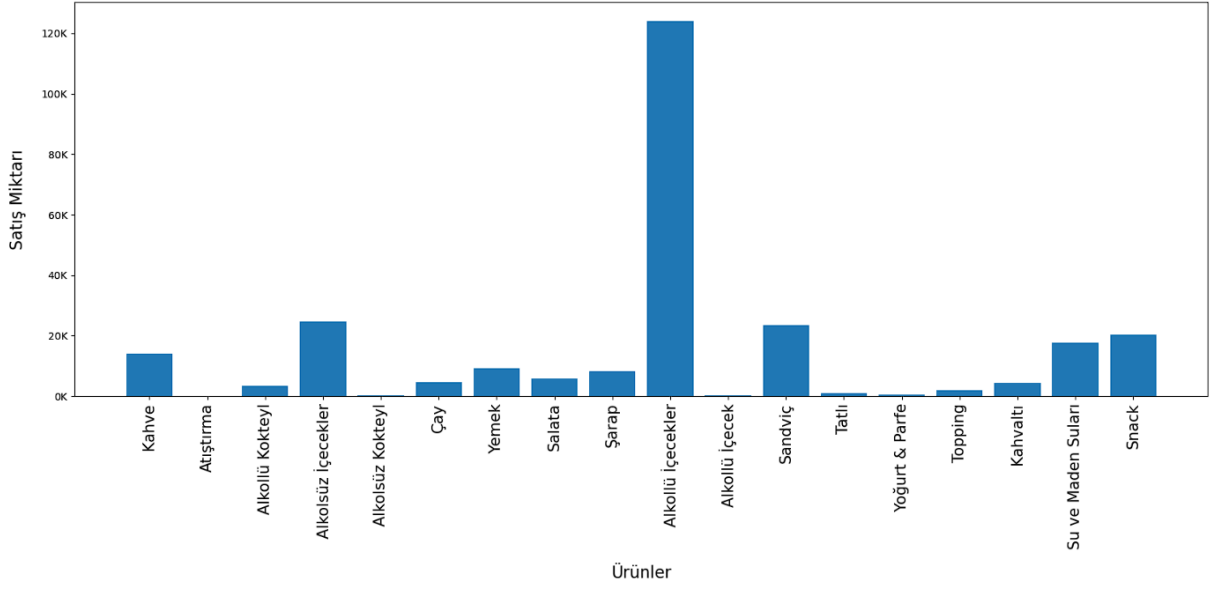
B2 mağazası

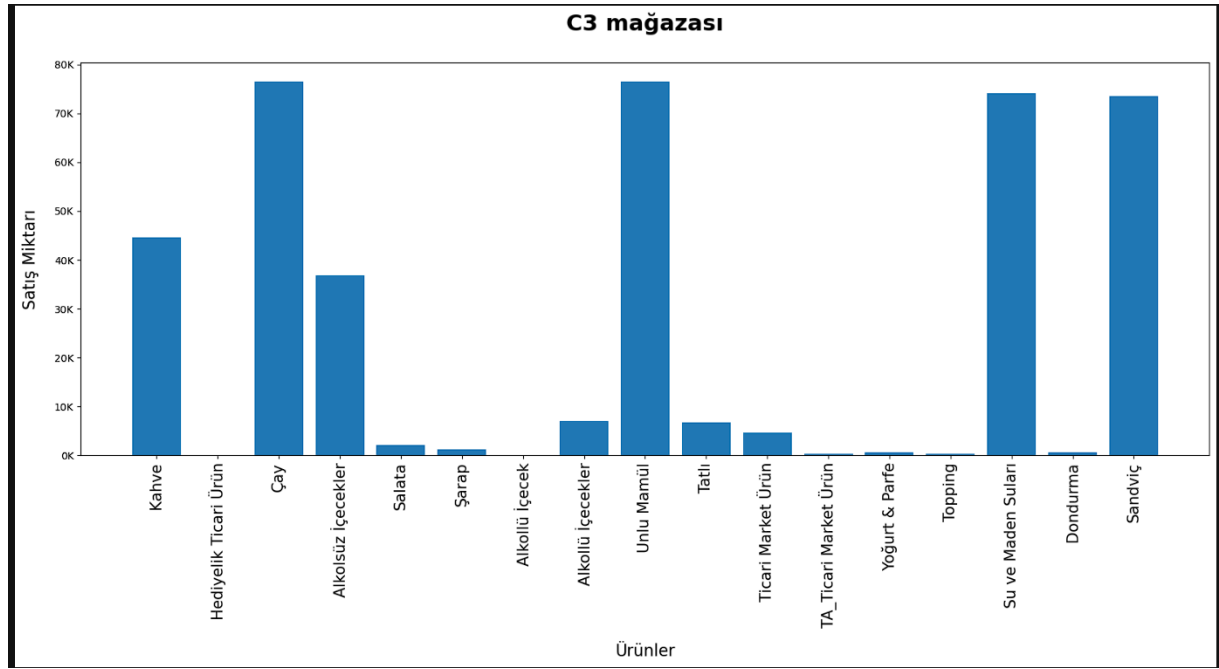


D3 mağazası

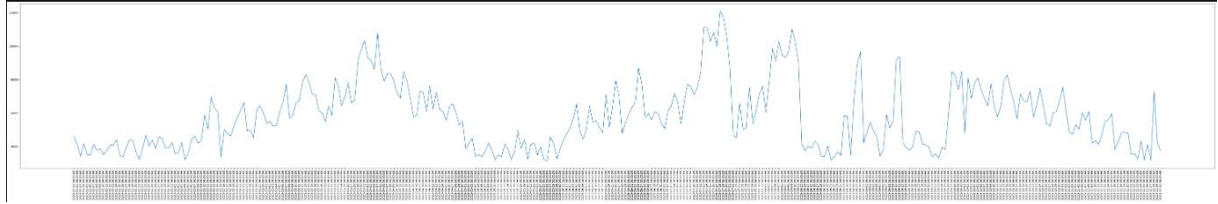


A1 mağazası

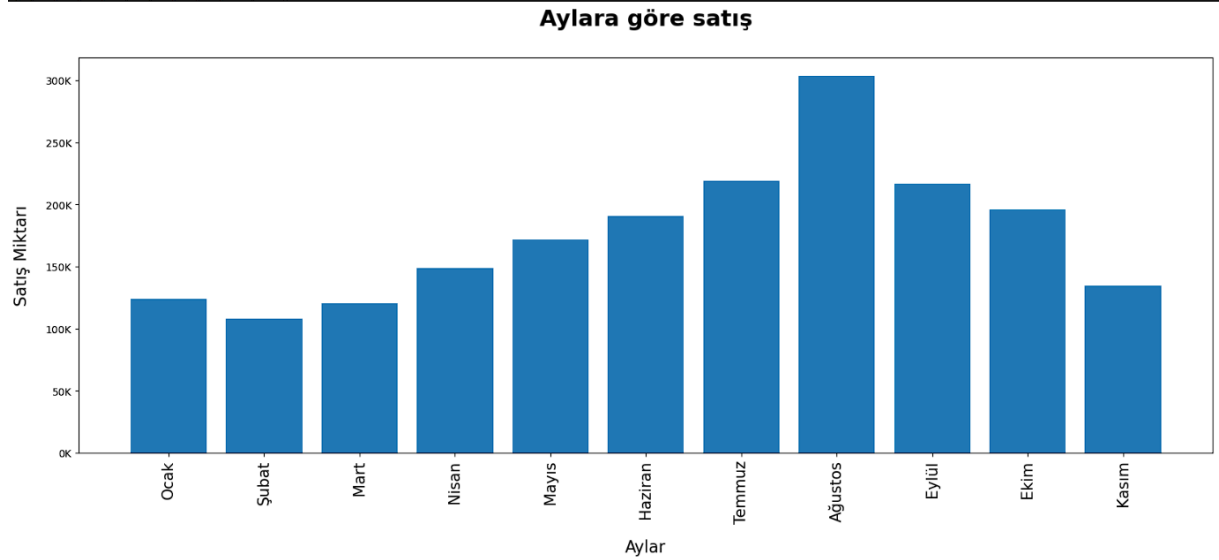




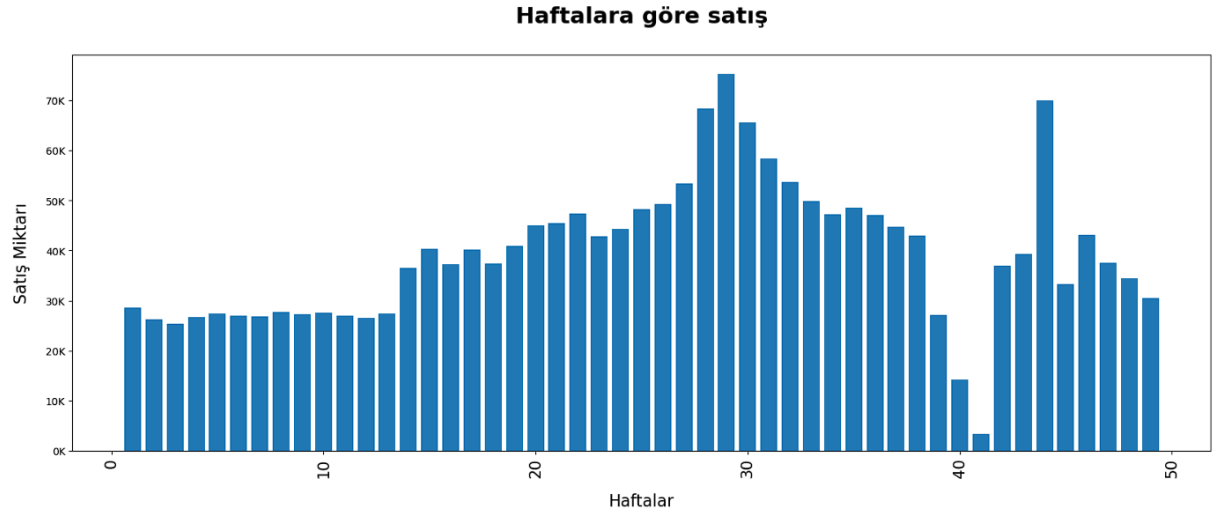
Sales – time graphic, attached as pdf



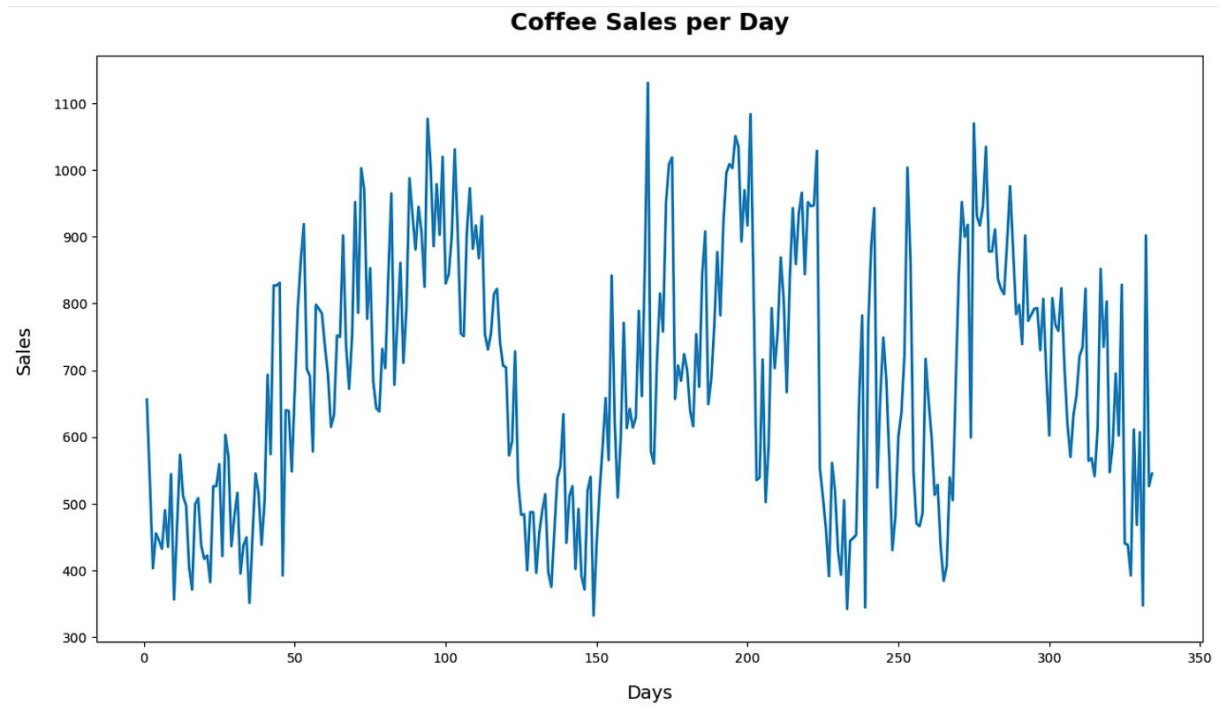
Monthly Sales



Weekly Sales



We can also inspect the sales for each category.



Total sales over the year per a specific category.

