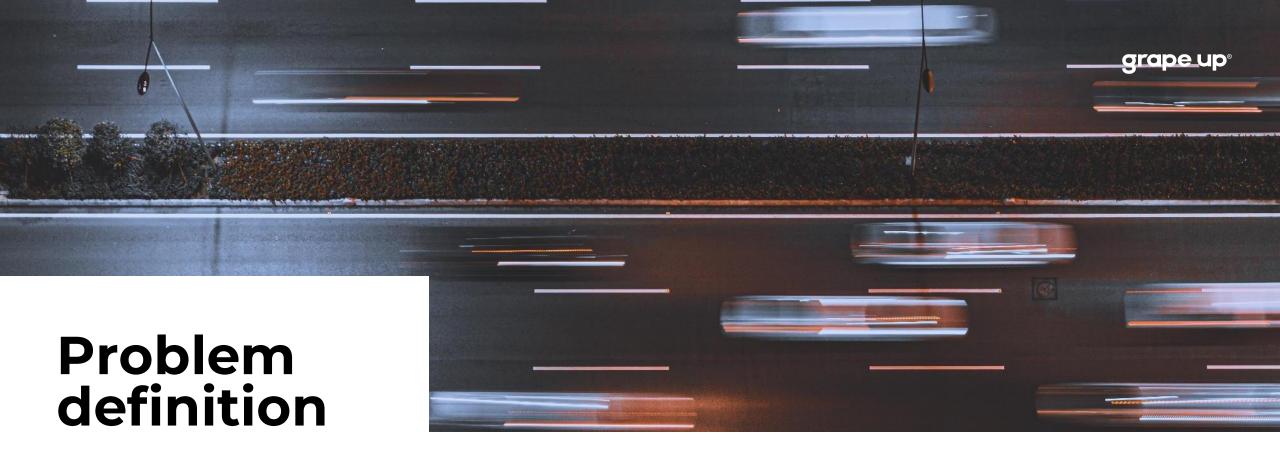


Ubaar competition

Goods transport industry is a very big and important industry

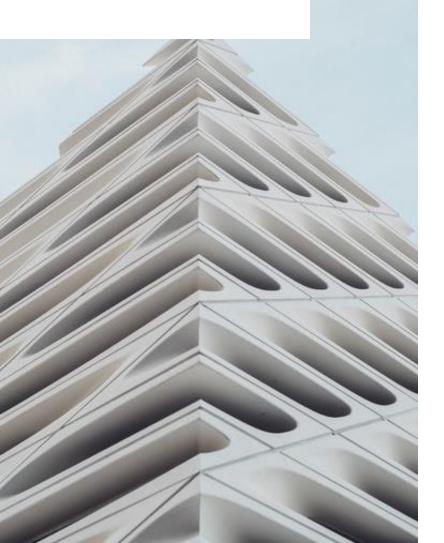
Transport costs have a major impact on the efficiency





- In Iran, every day 80,000 shippers try to find carriers to transport their loads to their desired destination using a variety of trucks.
- As there are a variety of factors that affect price, setting a reasonable price is a real challenge
- Transport costs have a major impact on efficiency.

Data source - Ubaar



- 1. Ubaar is **the biggest smart trucking platform** in Iran that matches carriers with shippers.
- 2. Ubaar has to offer a price that is reasonable to both shippers and carriers in a timely manner.
- 3. Thus, Ubaar has used machine learning to provide a transparent, fast & reasonable price.
- 4. The data comes from https://www.kaggle.com/c/ubaar-competition/

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Available features



The most important features collected by the company are:

Source and destinaiton lattitudes and longitudes

Source and destination states

Distance and time of the transport

Vehicle type and option

Weight of goods

Conclusions





We are able to predict the price with **MAPE = 16.1%**

Is MAPE a proper metric? We should assure it correlates with business objectives





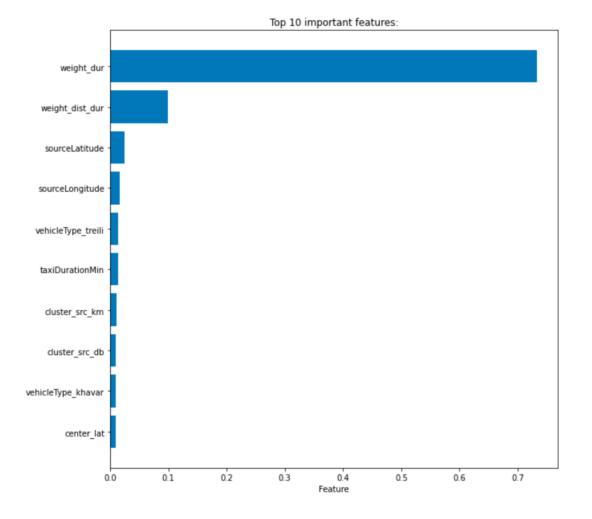
The results are stable in terms of:

- Localizations most of the possible localizations are covered by data
- Amount of data
- Vehicles types generally worksimilarly

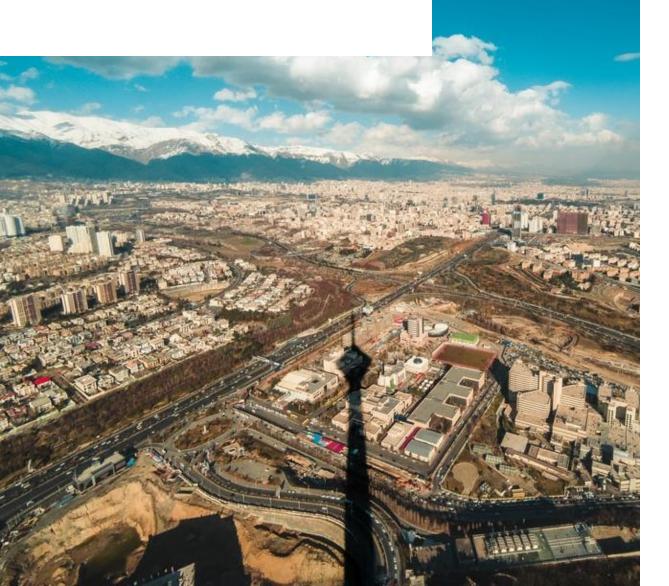
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Main features

The features of the transport that affect the price most:



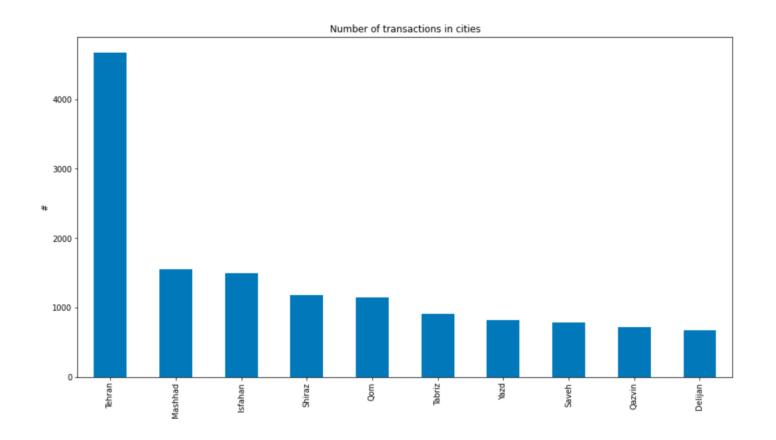
Covered localizations



- Attachment: train_test.html
- Most of the country localizations are covered in data
- After analysis independent test set we can see that no more transport sources emerge

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Most important localizations

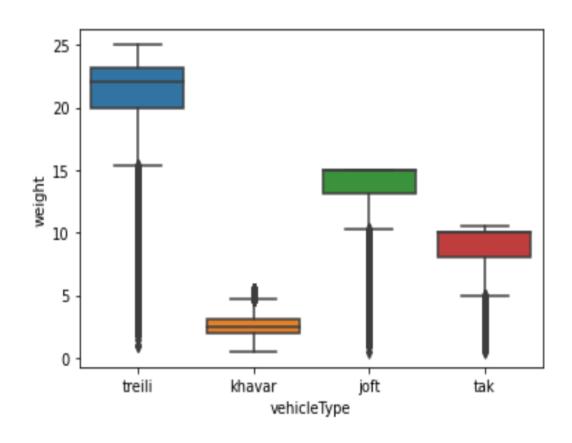


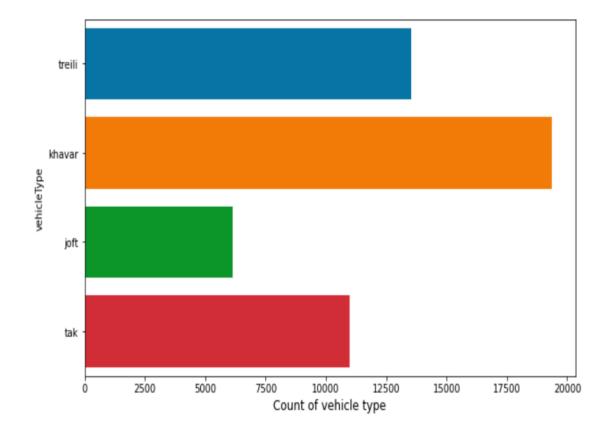




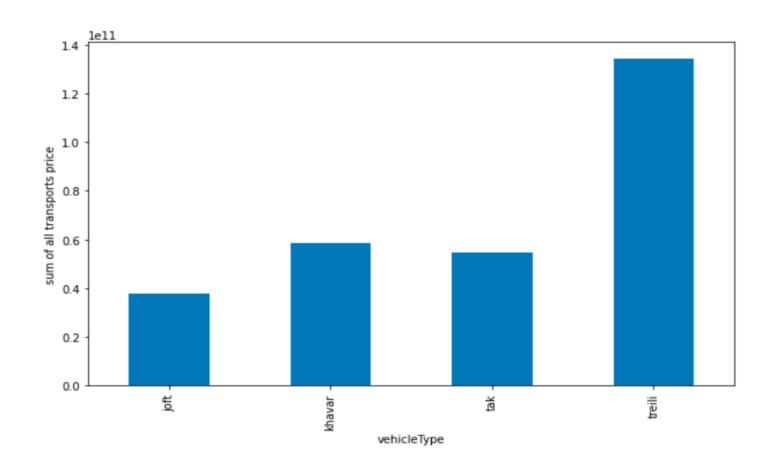
- Attachment: ave_prices.html
- Clearly the cities on the south coast, especially on the eastern side, have the highest prices
- It is especially visible if the source of trip is there
- It contains average price for city and average price for city per kilometer

The most needed vehicle





Cumulative prices of transports according to vehicle type



Thank you