

AGENDA

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Description

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Conclusion





Variables

VARIABLE QUANTITATIVES

- Passengerld
- Survived
- Pclass
- Age
- SibSp
- Parch
- Fare
- Ticket

VARIABLE QUALITATIVES

- Name
- · Embarked
- Sex

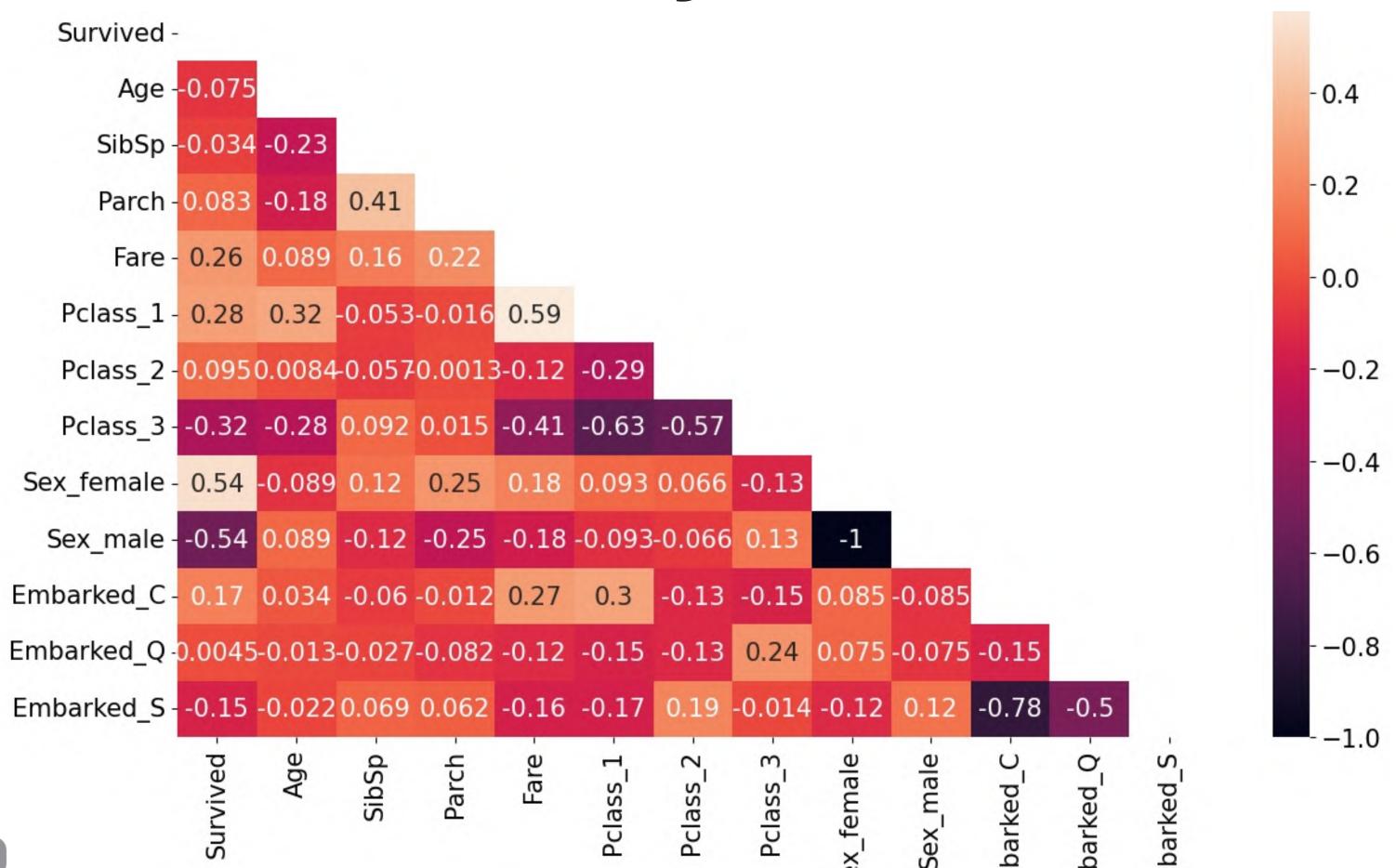
Missing Values

Cabin: Contains 687 NaNs ———— Columns dropped

* Embarked: Contains just 2 NaNs — Lines dropped

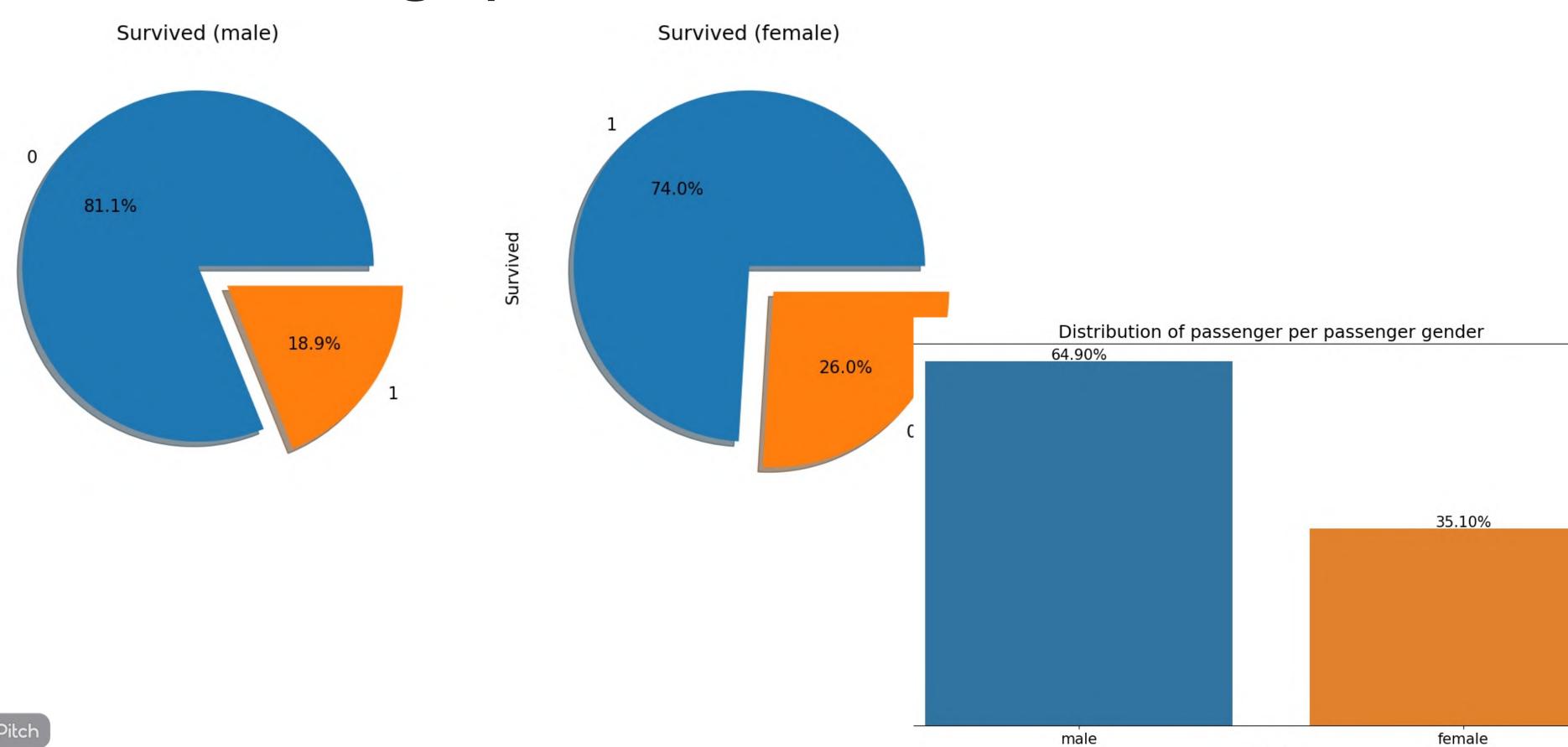


Correlation analysis

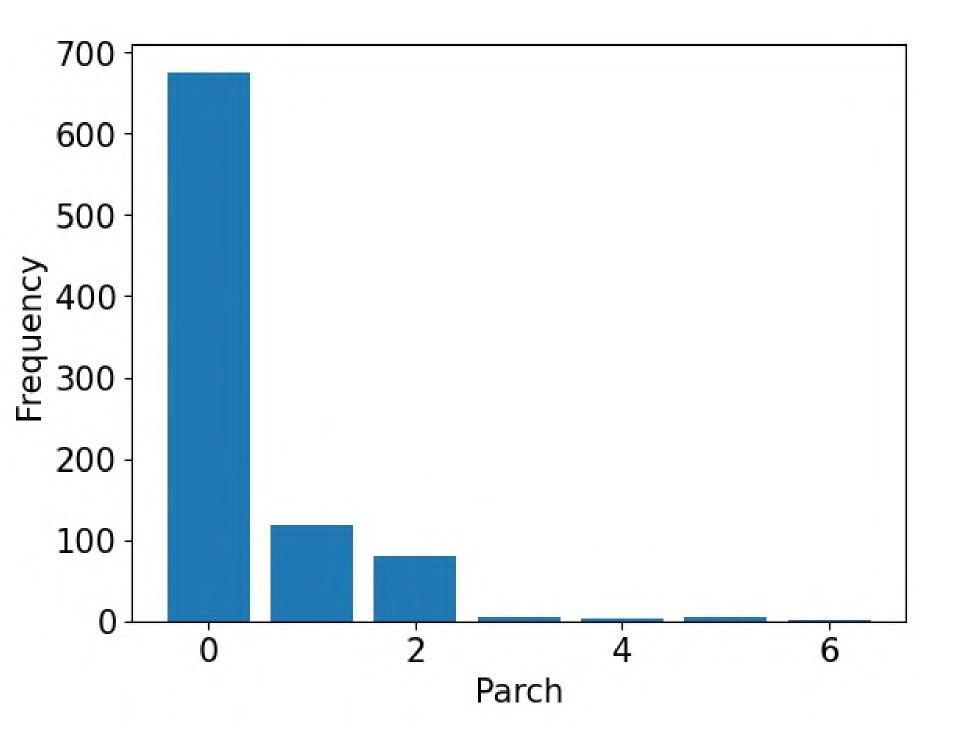


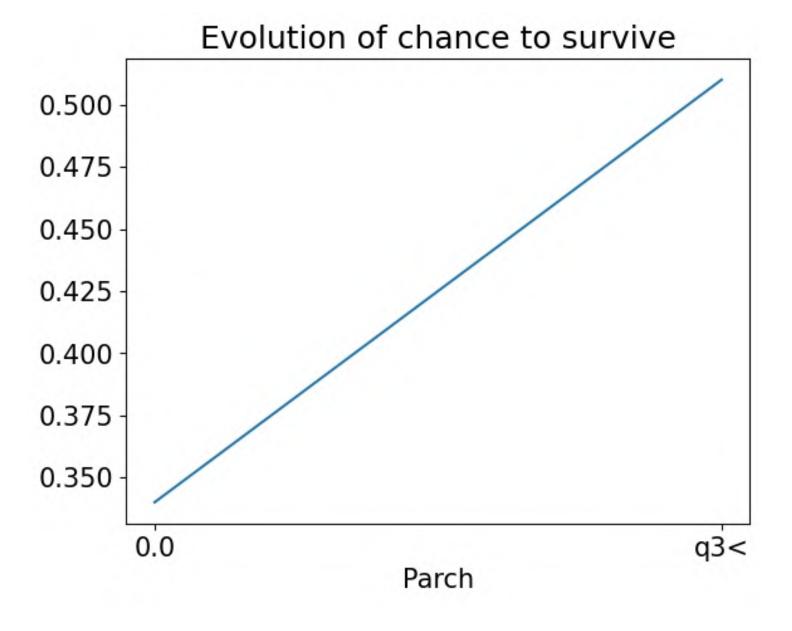
Pitch

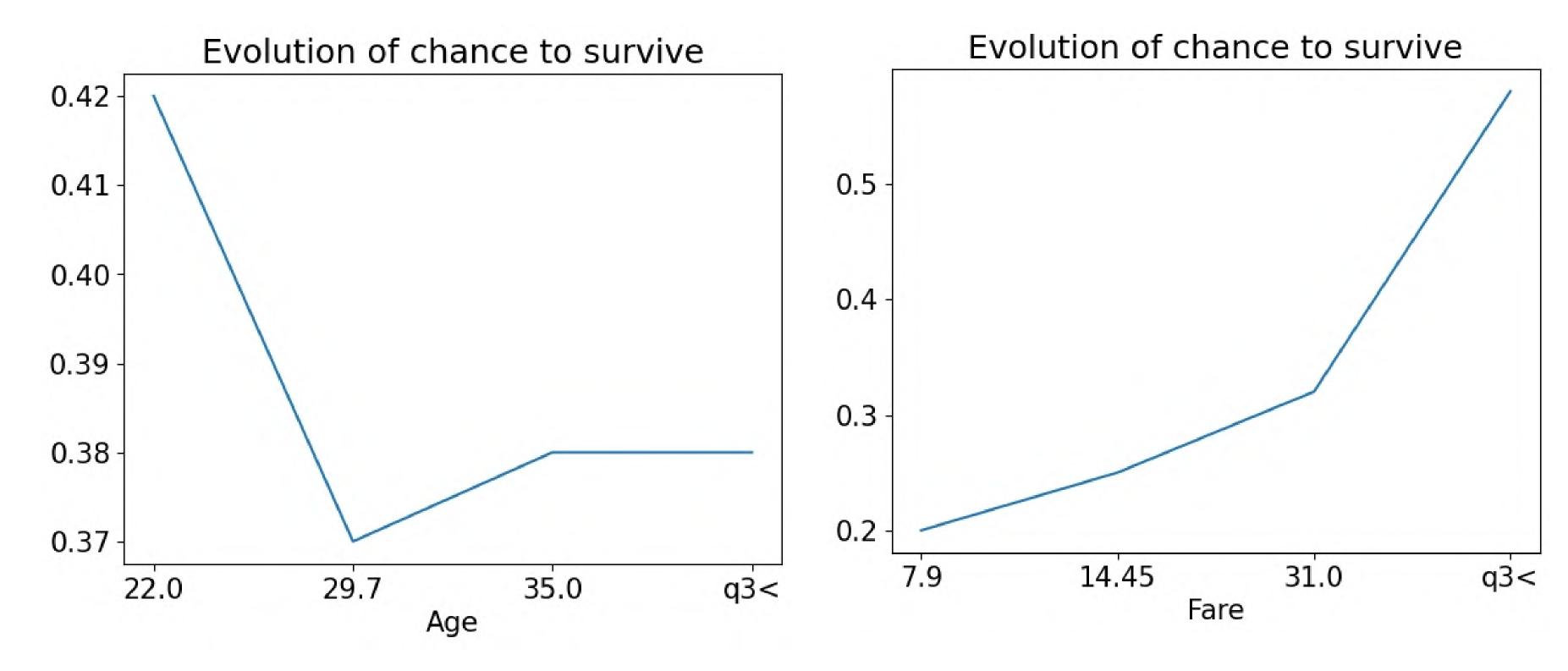
Some relates graphs

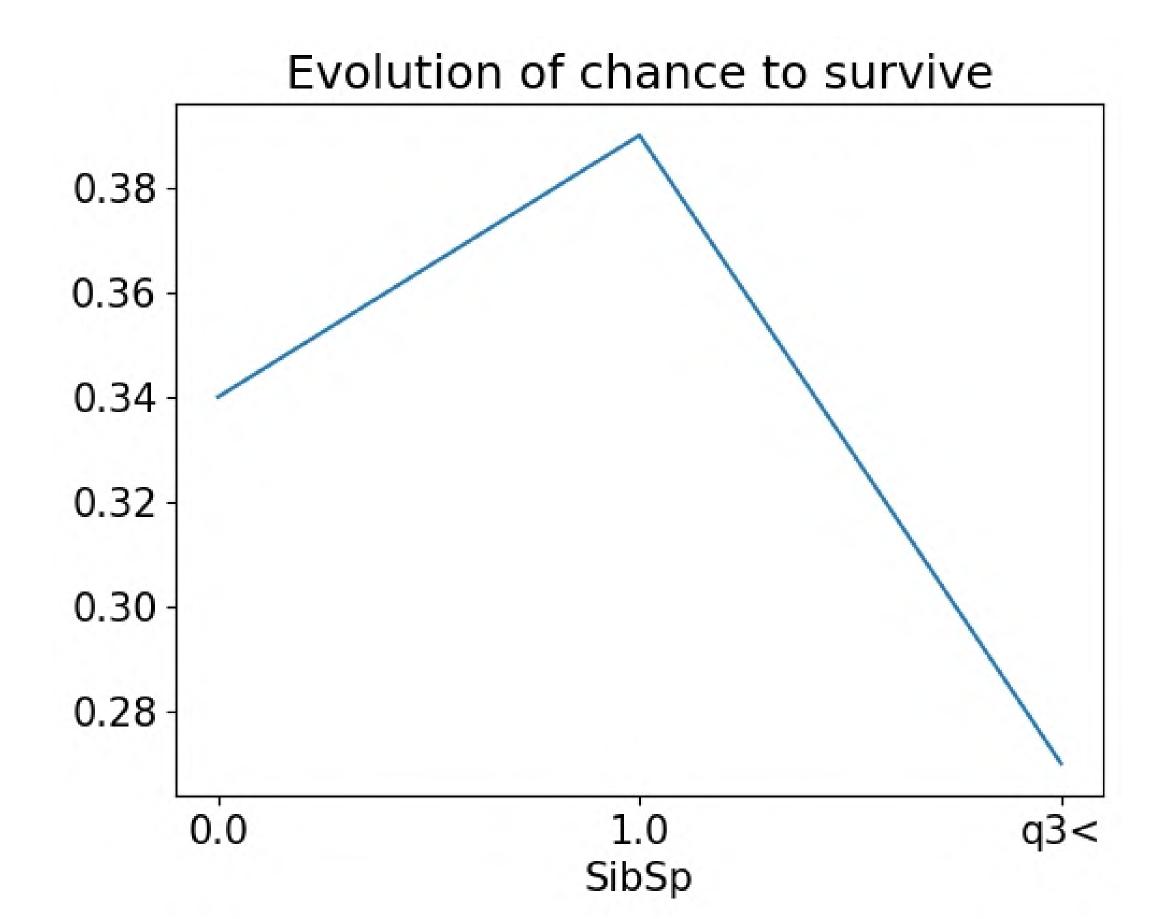


Sex









Summary

This correlation matrix details more the chance of survive of passenger based on the allowed attributes. First of all, female were lucky, they have a high probability to survive than male in the accident. After gender lucky, coming class that the passenger was sat, more you get top class more your chance of survive is high, specifically for those in the first class. As we know that fare and pclass are positively associated, more richer or you pay more you have more chance to survive. Place of embarkation also influences the chance of survive, as we can read on the above matrix, passenger of Cherbourg get more chance than others.

Otherwise according to the correlation analysis, more you get older, more you have siblings on the board your chance of dying growth with. For places, peoples in class 3, whom from southampton was quite defavrorised for saving. Finally males were the most impacted that can be explained by many factors like priority when saving.

This analysis can be biaised by overreprensation for some modalities like sex, pclass 3

To go more deeper in our analyse, by this pivot table we can clearly notice that in average, `Fare` and shance of surviving strongly associated. Among female or male, for those who survived more than double of fare which ones who died. The last thing is that females paid more in average than males that can explain what we notice above but we have to check if it's not due to biais sample.

Survived	Sex	Age	Fare	Parch	SibSp
0		26.023272	23.024385	1.037037	1.209877
Ť		31.175224			0.440171
1	female	28.797265	51.695617	0.519481	0.519481
	male	27.631705	40.821484	0.357798	0.385321



Thank you

As always, we're open for questions

