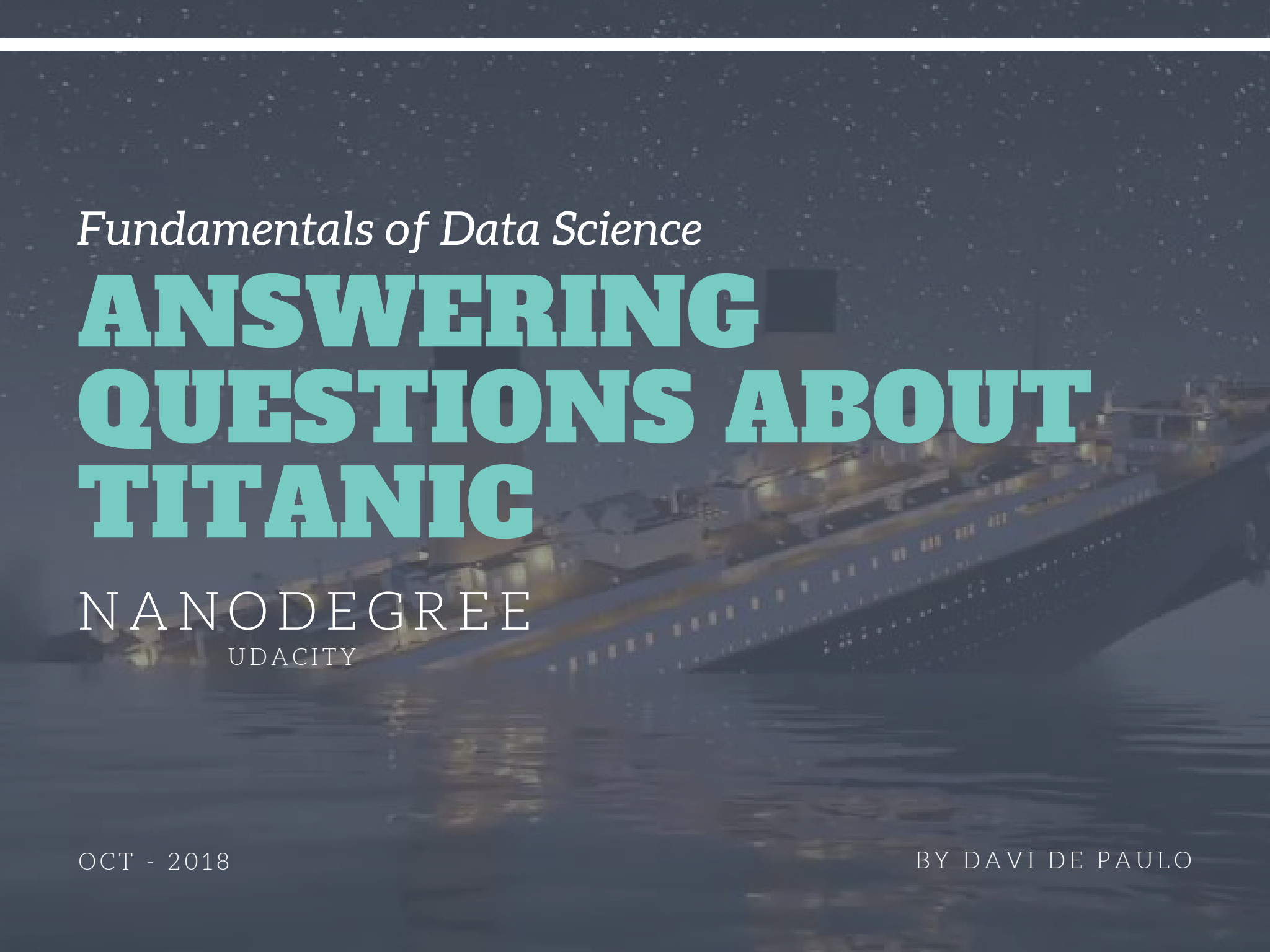


Fundamentals of Data Science

ANSWERING QUESTIONS ABOUT TITANIC

NANODEGREE

UDACITY

OCT - 2018

BY DAVI DE PAULO

OVERVIEW

ANALYZING DATA FROM TITANIC TRAGEDY

In this project, I will try to answer questions that was raised by experts and society in general after this historical tragedy that marked a generation. Feel free to add your own questions and I will try to implement into the code. The data is public, so the code will be also public at my github account. Everyone is welcome to contribute. Let's get started!

QUESTIONS

QUESTIONS

In the following page, I will list a series of questions that people from around the world could've asked as well as those questions I was inclined to do so. Like I mention before, fell free to add your own (maybe we can lower the risks of future sinking boats! :)

891 PASSENGERS

We are working with a dataset of 891 passengers of which only 712 contains relevant and demographic information about them.

We found that 554 passengers embarked in Southhampton
130 embarked in Cherbourg and 28 in Queenstown

WHERE DID THE PASSENGERS EMBARKED?

554

SOUTHHAMPTON

130

CHERBOURG

28

QUEENSTOWN

I will drop all values where Age column is missing values
So, we will work of a dataset of 712 passengers

712 PASSENGERS

Embarked
We discovered that 2 women
did not board the ship

Remember: Missing your train or boat can sometimes save your life.

WHAT DO WE KNOW ABOUT THE SURVIVORS?

Out of the 712 passengers

40%

SURVIVED

The amount of survivors from the dataset is 288 of which 712 embarked. This represent 40% of passengers from the dataset

712

PASSENGERS

WHO WERE THE PASSENGERS?

573
ADULTS

139
CHILDREN

382
MALES

71
BOYS

191
FEMALES

68
GIRLS

69
MALE ADULTS SAVED

24
BOYS WERE SAVED

149
FEMALE ADULTS SAVED

46
GIRLS WERE SAVED

712

PASSENGERS

WHO WERE THE PASSENGERS?

80%
ADULTS

20%
CHILDREN

67%
MALES

51%
BOYS

27%
FEMALES

68%
GIRLS

288

SAVED PASSENGERS

NUMBER OF SAVED PASSENGERS

218
ADULTS

70
CHILDREN

69
MALES

24
BOYS

149
FEMALES

46
GIRLS

STATISTICS OF THE SAVED PASSENGERS

38%
ADULTS

50%
CHILDREN

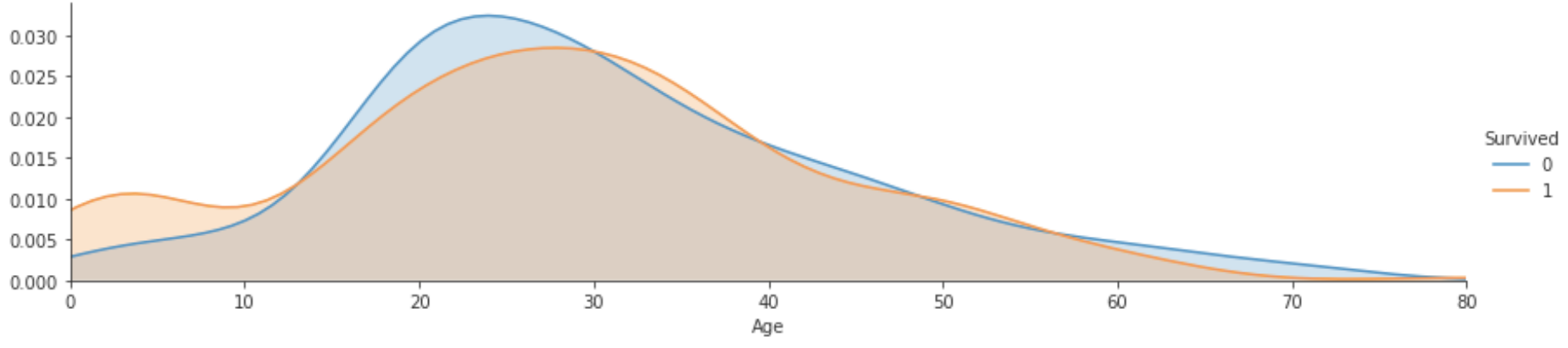
18%
MALES

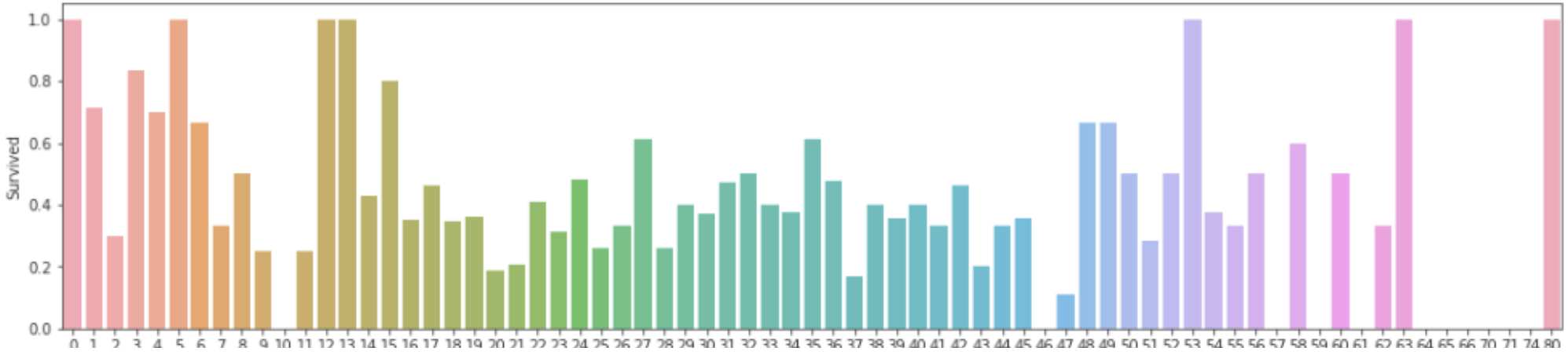
34%
BOYS SAVED

78%
FEMALES

33%
GIRLS SAVED

AVERAGE SURVIVED BY AGE





288

SAVED
PASSENGERS

WHERE THE PASSENGERS WHO SURVIVED EMBARKED?

201

SOUTHHAMPTON

80

CHERBOURG

8

QUEENSTOWN

SURVIVORS BY CLASSES?

1ST	2ND	3RD
36 FEMALE	49 FEMALE	21 FEMALE
21 MALES	6 MALES	21 MALES
6 GIRLS	11 GIRLS	10 GIRLS
3 BOYS	8 BOYS	9 BOYS

CHERBOURG

SURVIVORS BY EMBARKED CITY AND CLASS?

1ST	2ND	3RD
33 FEMALE	4 FEMALE	2 FEMALE
15 MALES	0 MALES	6 MALES
4 GIRLS	3 GIRLS	9 GIRLS
1 BOYS	1 BOYS	2 BOYS

QUEENSTOWN

SURVIVORS BY EMBARKED CITY AND CLASS?

1ST	2ND	3RD
1 FEMALE	1 FEMALE	2 FEMALE
0 MALES	0 MALES	1 MALES
0 GIRLS	0 GIRLS	3 GIRLS
0 BOYS	0 BOYS	0 BOYS

CONCLUSION

OUTLINING SOME FINDINGS

I would assume that many children and women survived because the vast majority of men were gentleman and had a great sense of protection. Kids and female adults outnumbered the number of men despite the higher number of male adults being onboard. I also would add the fact that the intense physical activity of the males trying to help everyone, decreased their body temperature, resulting in higher deaths caused by hypotermia. Females adults who embarked in Southhampton from 2nd class had the higher chance of survival

17%

FEMALE ADULTS WHO EMBARKED IN SOUTHAMPTON FROM 2ND CLASS, HAD THE HIGHER CHANCE OF SURVIVAL

THANK YOU

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