



**10Alytics**

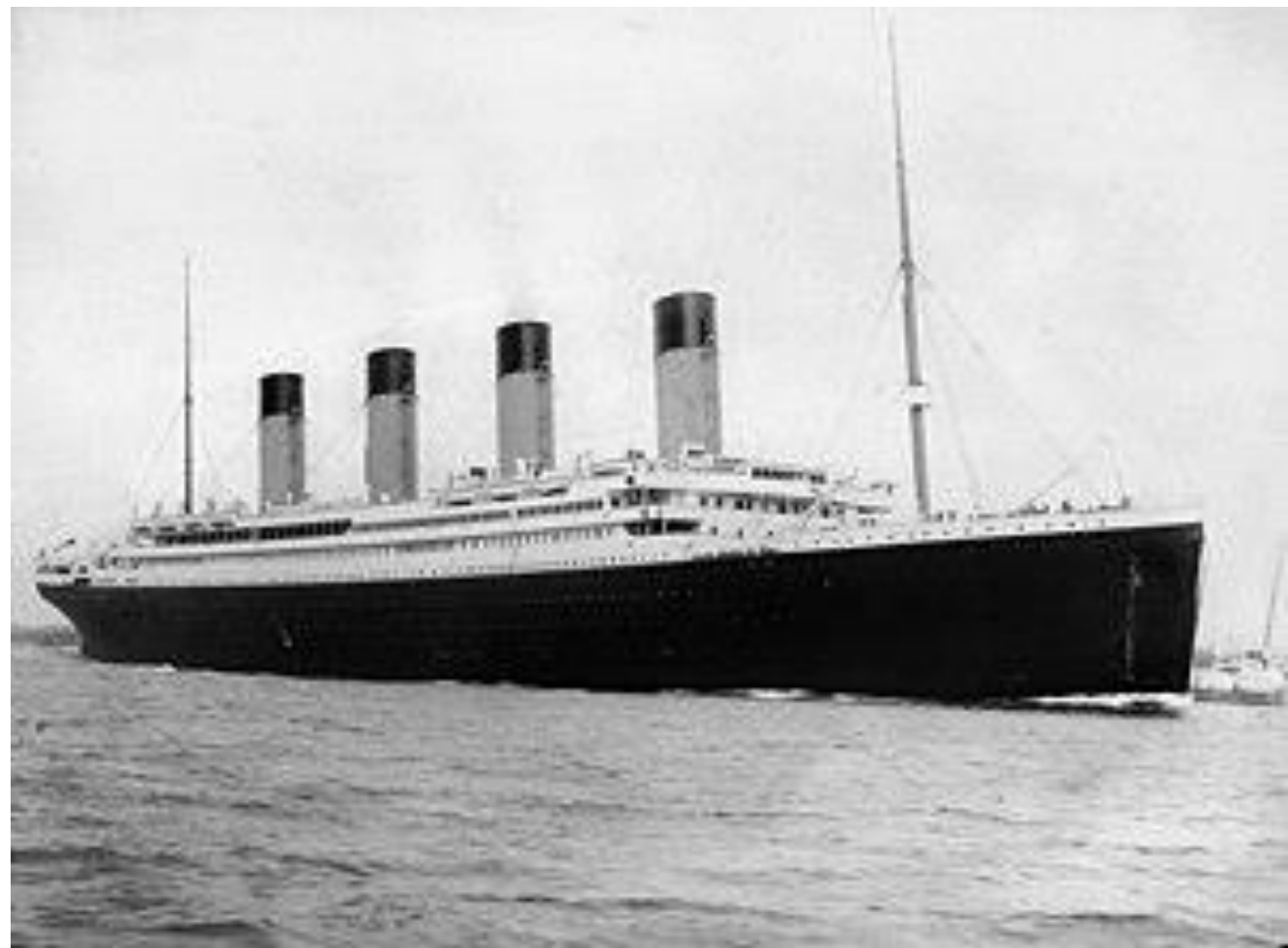
data & strategy

# Titanic Dataset

# Titanic Case Study

Titanic was a British passenger liner, operated by the White Star Line, which sank in the North Atlantic Ocean on 15 April 1912 after striking an iceberg during her maiden voyage from Southampton, UK, to New York City. Of the estimated 2,224 passengers and crew aboard, more than 1,500 died, which made the sinking possibly one of the deadliest for a single ship up to that time.[a] It remains to this day the deadliest peacetime sinking of a superliner or cruise ship.[4] The disaster drew much public attention, provided foundational material for the disaster film genre, and has inspired many artistic works.

**You have been contacted as a Data Analytics consultant to provide an in-depth analysis of what happened on the titanic and proffer some recommendations.**





# Data Description

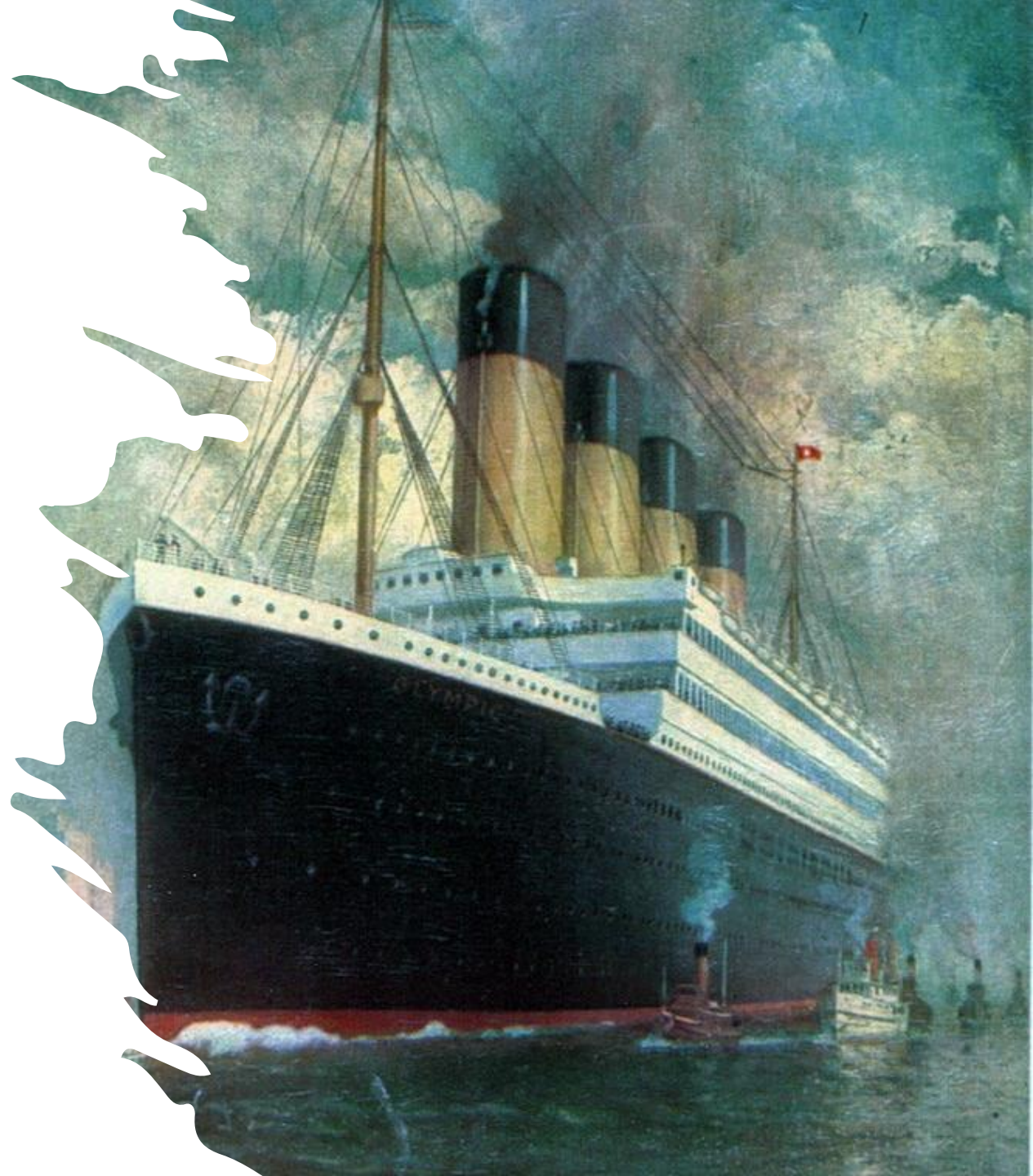


Name	Variable explanation
pclass	Passenger Class (1 = 1st;2 = 2nd;3 = 3rd)
Survived	Survival (0 = no, 1 = yes)
Name	Passenger name
Sex	Gender of passenger
Age	Age of passenger
Sibsp	(number of siblings/spouses aboard)
Parch	(number of parents/children aboard)
Ticket	Ticket number
Fare	Passenger fare (£)
Cabin	Cabin
Embarked	Port of Embarkation (C = Cherbourg; Q = Queenstown; S = Southampton)

## Exploratory Data Analysis

Using the data answer the following questions:

1. How many passengers were on the ship?
2. How many passengers were in each class?
3. How many passengers were male and female?
4. Group passenger age into 4 groups (0 – 19 Teenagers, 20 – 39 Youth, 40-59 Adult, >60 Elders)
5. What age group had the most and least passengers?
6. How many passengers had siblings onboard the ship?
7. How many passengers had a child on board?
8. What was the Sum, Avg, Min and Max Fare prices.
9. How many passengers embarked in each location?
10. How many male and female passengers do we have in each class?





# Tailored Data Analysis

- Using the data answer the following questions:
  1. How many people survived and died?
  2. How many male and female passengers survived?
  3. How many people survived in each class?
  4. How many people survived in each age group?
  5. How many people survived based on where they embarked?
  6. What is the ratio of survived male and female passengers based on class?
  7. What is the ratio of survived male and female passengers based on their age group?
  8. What is the ratio of survived male and female passengers based on their age group?





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