

Artwork/Project Title

Data Mining on Titanic

Year Accomplished

2021

Project 12 of 20

Role/Position

Data Scientist

Publication Link

<https://github.com/belindamutiara/Portofolio>

### Artwork/Project Description

For my final semester 1 project, I focused on performing explanatory data analysis on the Titanic dataset. The primary objective was to process the data to ensure its readiness for modeling. To achieve this, I began by importing the necessary libraries and conducting a thorough data overview. Then I proceeded to handle missing values by filling them appropriately. Additionally, I normalized the data and removed any outliers that could potentially affect the analysis. To enhance the understanding of the data, I did various data visualization techniques. Through these steps, I ensured that the dataset was properly prepared for further modeling and analysis.



Figure 1 Correlation Matrix

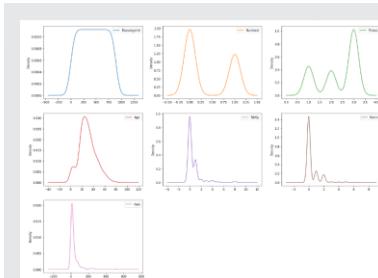


Figure 2 Data Distributions

	count	mean	std	min	25%	50%	75%	max
Passengerid	891.0	446.000000	257.353842	1.00	223.5000	446.0000	668.5	891.0000
Survived	891.0	0.385838	0.486592	0.00	0.0000	0.0000	1.0	1.0000
Pclass	891.0	2.308642	0.836071	1.00	2.0000	3.0000	3.0	3.0000
Age	891.0	29.361582	13.019697	0.42	22.0000	28.0000	35.0	80.0000
SibSp	891.0	0.523008	1.102743	0.00	0.0000	0.0000	1.0	8.0000
Parch	891.0	0.381594	0.806057	0.00	0.0000	0.0000	0.0	6.0000
Fare	891.0	32.204208	49.693429	0.00	7.9104	14.4542	31.0	512.3292

Figure 3 Data Info

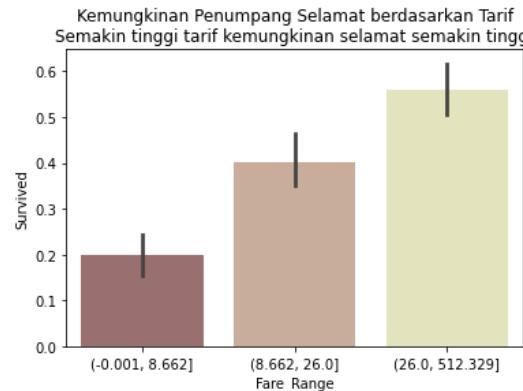


Figure 4 Relationship between Survive Chance and Fare

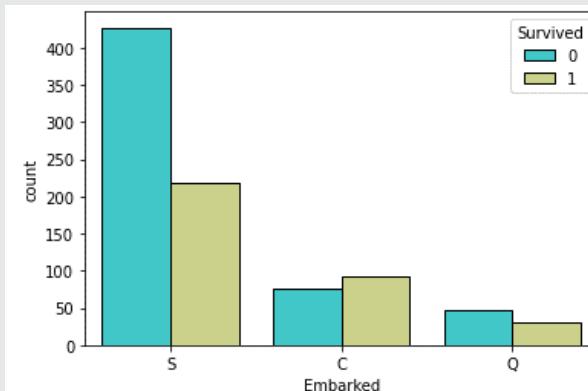


Figure 5 Relationship between Survive Chance and Embarked

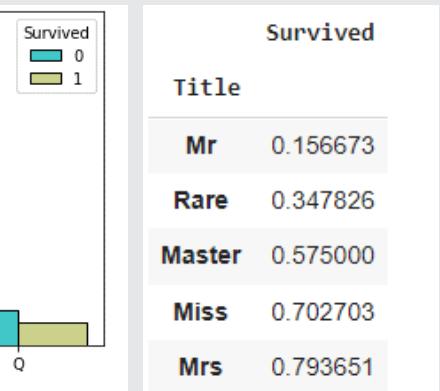


Figure 6 Relationship between Survive Chance and Title

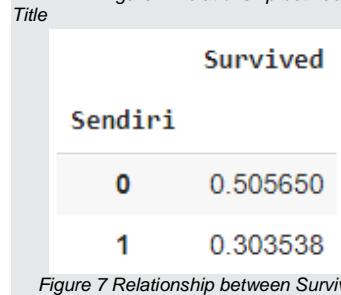


Figure 7 Relationship between Survive Chance and isAlone

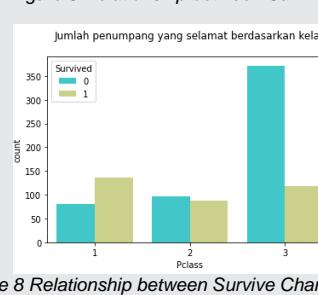


Figure 8 Relationship between Survive Chance and PClass

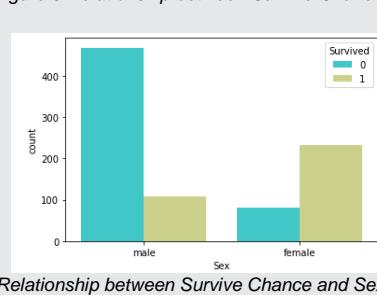


Figure 9 Relationship between Survive Chance and Sex

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BINUS Internship Track  
2024