Creating Benchmark Model

Problem Types

Regression

Big Mart

Classification
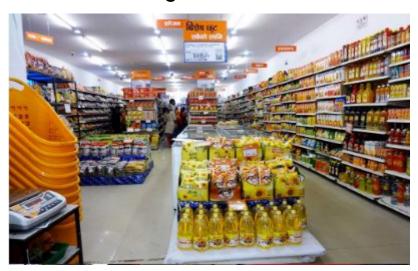

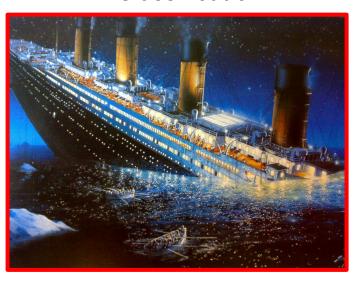Titanic

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Problem Types

Regression

Big Mart

Classification

Titanic

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Problem Statement

To predict whether the Passenger of Titanic would have survived or not

Problem Statement

Pclass	Passenger Class (1 = 1st; 2 = 2nd; 3 = 3rd)
survival	Survival (0 = No; 1 = Yes)
name	Name
sex	Sex
age	Age
sibsp	Number of Siblings/Spouses Aboard
parch	Number of Parents/Children Aboard
ticket	Ticket Number
fare	Passenger Fare (British pound)
cabin	Cabin
embarked	Port of Embarkation (C = Cherbourg; Q = Queenstown; S = Southampton)
boat	Lifeboat
body	Body Identification Number
home.dest	Home/Destination

Problem Statement

Pclass	Passenger Class (1 = 1st; 2 = 2nd; 3 = 3rd)
survival	Survival (0 = No; 1 = Yes)
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Problem Statement

Pclass

survival (0 = No; 1 = Yes)

name

sex

age

sibsp

parch

ticket

fare

cabin

embarked

boat

body

home.dest

Creating Benchmark Model

- Mode of Survival

Pclass
survival (0 = No; 1 = Yes)
name
sex
age
sibsp
parch
ticket
fare
cabin
embarked
boat
body
home.dest

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Creating Benchmark Model

- Mode of Survival

- Gender Based mode of Survival

Pclass
survival (0 = No; 1 = Yes)
name
sex
age
sibsp
parch
ticket
fare
cabin
embarked
boat
body
home.dest

Creating Benchmark Model

- Mode of Survival

- Gender Based mode of Survival

- Other Combinations!

Pclass
survival (0 = No; 1 = Yes)
name
sex
age
sibsp
parch
ticket
fare
cabin
embarked
boat
body
home.dest

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Creating Benchmark Model: Evaluation

Creating Benchmark Model: Evaluation

Accuracy: Correctly predicted observations upon total observations

Creating Benchmark Model: Evaluation

ID	Actual Survived	Predicted Survived	Notation
ID1	1	0	
ID2	1	1	
ID3	1	0	
ID4	0	0	
ID5	1	1	
ID6	1	1	
ID7	0	1	
ID8	0	0	

Accuracy:
Correctly predicted observations
upon total observations

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Creating Benchmark Model: Evaluation

ID	Actual Survived	Predicted Survived	Notation
ID1	1	0	incorrect
ID2	1	1	correct
ID3	1	0	incorrect
ID4	0	0	correct
ID5	1	1	correct
ID6	1	1	correct
ID7	0	1	incorrect
ID8	0	0	incorrect

Accuracy:
Correctly predicted observations upon total observations

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