

GEMV DEHRADUN

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Lab

Subject code: PMC-103

Sem: Ist sec: D

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3 Answer We're using here Titanic dataset to analyze:

Load data:

⇒ `titanic <- read.csv("c:/users/Desktop/titanic.csv", header = TRUE, sep = ",")`

Peek at your data:

⇒ `view(titanic)`

This help us for familiarizing with the data set.

⇒ `head(titanic, 10)`

return first 10 rows.

⇒ `tail(titanic, 10)`

return Bottom, 10, rows.

⇒ `names(titanic)`

This helps us in checking all the variables in the data set.

⇒ `summary(titanic)`

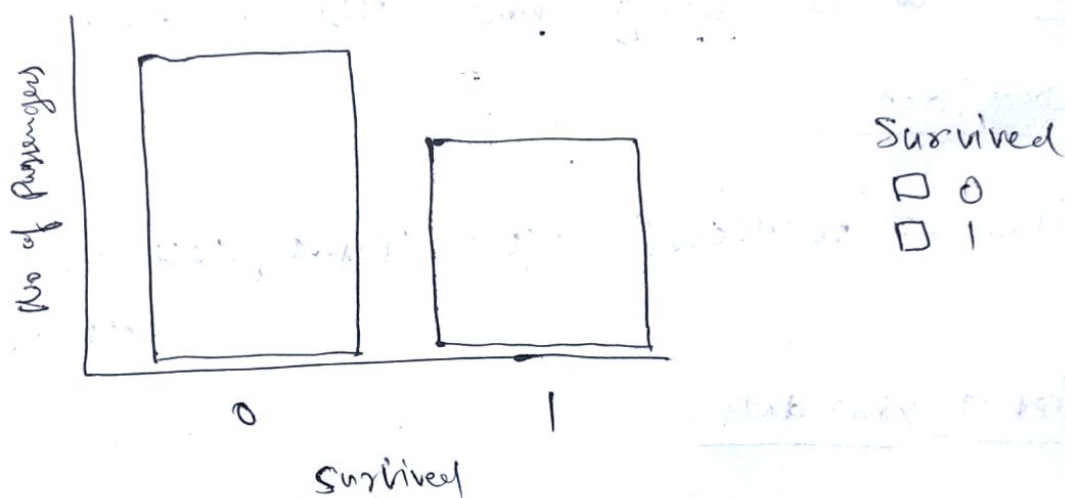
It is one of the most important functions that help in summarising each attribute in the dataset.

It gives the descriptive statistics of the data.

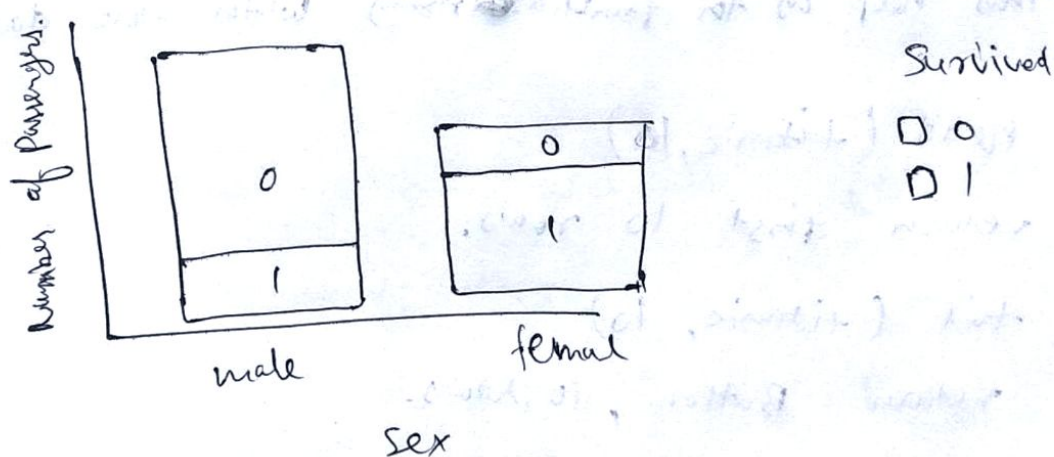
• Analysis & visualizations:

• Survival rate:

`ggplot(titanic, aes(x = Survived)) + geom_bar()`



• Survival rate based gender:

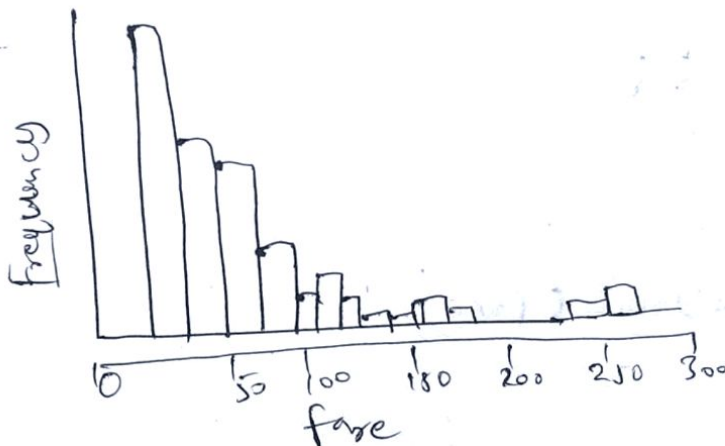


`ggplot(titanic, aes(x = Sex, fill = survived)) +
 theme_bw() + geom_bar() +
 labs(y = "Number of Passengers",
 title = "Survival Rate by Gender")`

• Distribution of fare rate:

hist (titanic \$ fare, main = "fare per person", xlab = "fare",
col = "grey" breaks = 40, xlim = c(0, 300))

Fare Per Person



Answer

Descriptive Statistics:

Summary: Gives us the descriptive stats like.

In case of Numerical data:

Gives Mean, Mode, Median, Range.

Measure of Central Tendency:

⇒ Mean (titanic \$ fare) [on average person spent
32.2042] [\$32 to board the titanic]

⇒ mode (titanic \$ Age) [most common age
24 on titanic]

⇒ median (train \$ fare)
14.542

Measure of Spread:

→ range (titanic \$ fare)

0.000 512.3292

[It shows lowest and highest value of fare]

→ var (titanic \$ fare)

2469.437

→ sqrt (var (titanic \$ fare))

49.69343

Inferential Statistics:

- Hypothesis Testing:

new_data ← subset (titanic, titanic \$ pclass == 1)

z.test2 = function (a, b, n) {

sample.mean = mean(a)

pop.mean = mean(b)

c = nrow(n)

var.b = var(b)

zeta = (sample.mean - pop.mean) / sqrt (var.b/c)

return: zeta.

call function

z.test2 (new_data \$ survived, titanic \$ survived, new_data)

7.423828

2 Answer Student Registration in PHP:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> PHP Registration form </title>
```

```
</head>
```

```
<body>
```

```
<h1> Registration form </h1>
```

```
<form method = "POST">
```

```
<table>
```

```
<tr>
```

```
<td colspan = "2">
```

```
<?php echo @ $msg!??
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td> <b> Student Name </b> </td>
```

```
<td> <input type = "text" placeholder = "Student  
Name" > </td>
```

```
</tr>
```

```
<tr>
```

```
<td> <b> Enter your Email </b> </td>
```

```
<td> <input type = "email" placeholder = "Email" >
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td> <b> Enter Password </b> </td>
```

```
<td> <input type = "password" > </td>
```

```
</tr>
```

</tr>

<td> Enter your Address: </td>

<td><textarea name = "add"> Enter Address </textarea>

</td>

</tr>

<tr>

<td> Gender </td>

<td> Male <input type = "radio">

female <input type = "radio">

</td>

</tr>

~~<td>~~

~~<td> Password </td>~~

~~<td>~~

~~<td><input type = "password">~~

~~<td>~~

<tr>

<td colspan = "2" align = "center">

<input type = "submit">

<input type = "reset">

</td></tr>

</table>

</form>

</body>

</html>

<?php

```
extract ( $_POST);
```

```
if ( isset ( $save)) {
```

```
    $h = implode ( ", ", $hobb);
```

```
    if ( $return) {
```

```
        $msg = "<font color = 'red'> " . ucfirst ($e). "
```

```
        already exists choose another email </font>";
```

```
    } else {
```

```
        $msg = "<font color = 'blue'> Your data saved </font>";
```

```
    }
```

```
}
```

```
?>
```

1 Answer

```
<html>
```

```
<head> validate method </head>
```

```
<body>
```

```
<form name = "myform" action = "/action.page.php"  
onsubmit = "return validate();" method = "post">
```

```
Name: <input type = "text" name = "fname" > <br>
```

```
Password: <input type = "password" name = "pass" > <br>
```

```
Course: <input type = "text" name = "course" > <br>
```

```
<input type = "submit" value = "submit">
```

```
<script>
```

```
function validate(){
```

```
let x = document.forms["myform"]["fname"].value;
```

```
let x1 = document.forms["myform"]["pass"].value;
```

```
let x2 = document.forms["myform"]["course"].value;
```

```
if ( x == "" & x1 == "" & x2 == "" ) {
```

```
    alert("Name, password, course must be filled out");
```

```
else if ( x == "" & x1 == "" ) {
```

```
    alert("Name, password must be filled out");
```

```
} else if ( x == "" & x2 == "" ) {
```

```
    alert("Name, course must be filled out");
```

```
}
```



```
else if ( x1 == "" || x2 == "" ) {
```

```
    alert (" password and course must be filled out");
```

```
else if ( x == "" ) {
```

```
    alert (" name must be filled out");
```

```
else if ( x1 == "" ) {
```

```
    alert (" password must be filled out");
```

```
    }  
else if ( x2 == "" ) {
```

```
    alert (" course must be filled out");
```

```
    }
```

```
    return false;
```

```
}
```

```
</script>
```

```
</form>
```

```
</body>
```

```
</html>
```