

MVLU COLLEGE

Aim: Performing two-way ANOVA using `aov()` (R).

The screenshot shows the RStudio interface with the following details:

- File**: Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Project**: Project (None).
- Code Editor (Top Left)**:

```
1 #print("Name: S126 Hariprasad")
2 
3 # 1. Select the "Fastest Fifties - 2022" CSV file manually
4 data <- read.csv(file.choose())
5 
6 # 2. Perform two-way ANOVA with Interaction
7 # This checks if runs are affected by the Team (Against) and the stadium (venue)
8 anova_result <- aov(Runs ~ Against * Venue, data = data)
9 
10 # 3. View the ANOVA summary table (including p-values)
11 summary(anova_result)
12 
13 # 4. Preview the first few rows of your data
14 head(data)
15
```
- Console (Bottom Left)**:

```
R > A52 > -
> print("Name: S126 Hariprasad")
[1] "Name: S126 Hariprasad"
> # 1. Select the "Fastest Fifties - 2022" CSV file manually
> data <- read.csv(file.choose())
> 
> # This checks if runs are affected by the Team (Against) and the Stadium (Venue)
> anova_result <- aov(Runs ~ Against * Venue, data = data)
> 
> # 3. View the ANOVA summary table (including p-values)
> summary(anova_result)
   Df Sum Sq Mean Sq F value    Pr(>F)
Against      1  12.00  12.00  1.000 0.999
Venue        3  5.235  1.745  0.669 0.539
Against:Venue 30  0.959  0.032  1.057 0.412
Residuals   116  22.245  0.191 0.000 1.000
> 
> # 4. preview the first few rows of your data
> head(data)
#> #> #> #>
```
- Data View (Bottom Right)**:

POS	Player	Runs	BF	S6	X4s	X6s	Against	Venue	Match.Date
1	PAT Cummins	56	14	373.33	4	6	Maharashtra Cricket Association	Brabourne	06 April 2022
2	Noeem Al1	93	19	163.15	13	3	RR	Brabourne	CCTI 20 May 2022
3	Lian Livingstone	100	21	159.04	10	4	KKR	Brabourne	06 April 2022
4	Rahul Tripathi	71	21	151.89	4	7	KKR	Brabourne	13 May 2022
5	Jonny Bairstow	66	21	227.58	4	7	RCB	Brabourne	CCI 13 May 2022
6	Evin Lewis	55	23	239.13	6	3	CSK	Brabourne	31 March 2022
- Environment (Top Right)**:

Object	Type	Value
anova.model	List of 1	
anova_result	List of 13	
cricket_data	10 obs. of 3 variables	
data	118 obs. of 10 variables	
\$ POS	int	1 2 3 4 5 6 7 8 9 10 ...
\$ Player	chr	"Pat Cummins" "Noeem Al1" "Lian Livingstone" "Rahul Tripathi" ...
\$ Runs	int	56 93 64 71 66 55 108 54 58 50 ...
\$ BF	int	14 19 21 21 20 21 23 25 25 25 ...
\$ S6	num	373 163 237 192 228 ...
\$ X4s	int	4 13 7 4 6 10 8 9 8 ...
\$ X6s	int	6 3 4 6 7 3 6 3 2 1 ...
\$ Against	chr	"X1" "RR" "GT" "KKR" ...
\$ Venue	chr	"Maharashtra Cricket Association Stadium" "Brabourne - CCI" "Brabourne - CCI" "Br..."
\$ Match.Date	chr	"06 April 2022" "20 May 2022" "06 April 2022" "15 April 2022" ...
model	List of 13	

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