

SHETH L.U.J AND SIR M.V. COLLEGE

SUBJECT NAME:data analysis

PRACTICAL 8

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



RStudio

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Source

```
R452 - ~/
> library(readr)
> library(dplyr)
>
> df <- read.csv("~/5086 R Prac 7 to 9/AI_Impact_on_Jobs_2030.csv")
>
> df <- df %>%
+   filter(!is.na(Average_Salary), !is.na(Education_Level), !is.na(Risk_Category))
>
> model <- aov(Average_Salary ~ Education_Level * Risk_Category, data = df)
>
> summary(model)
```

	DF	Sum Sq	Mean Sq	F value	Pr(>F)
Education_Level	3	3.857e-09	1.286e-09	1.076	0.3581
Risk_Category	2	4.985e-09	2.493e-09	2.086	0.1243
Education_Level:Risk_Category	6	1.304e-10	2.173e-09	1.819	0.0915
Residuals	2988	3.570e-12	1.193e-09		

--

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> aggregate(Average_Salary ~ Education_Level + Risk_Category, data = df, FUN = mean)

	Education_Level	Risk_Category	Average_Salary
1	Bachelor's	High	83441.46
2	High School	High	83441.44
3	Master's	High	90899.23
4	PhD	High	86947.62
5	Bachelor's	Low	87420.59
6	High School	Low	87319.39
7	Master's	Low	90892.61
8	PhD	Low	84701.78
9	Bachelor's	Medium	90082.70
10	High School	Medium	88310.10
11	Master's	Medium	91714.09
12	PhD	Medium	92236.91

Environment History Connections Tutorial

R - Global Environment

model	List of 13
ss_between_df	4 obs. of 4 variables
test_result	List of 9

Values

contingency_table	'table' int [1:2, 1:2] 752 779 748 721
df_between	3
df_within	2996L
f_stat	1.0730444550076
grand_mean	89372.279
k	4L
median_exposure	0.5
median_salary	89318

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Roxygen Quick Reference

roxygen2 is an R package that allows you to write in-source documentation for your package functions and objects.

Write documentation above your package functions with the #' comment prefix.

Documenting Functions

Example

```
#' This is the title.
#' This is the description.
#'
#' These are further details.
#'
#' @section A Custom Section:
#'
#' Text accompanying the custom section.
#'
#' @param x A description of the parameter 'x'. The
#'   description can span multiple lines.
#' @param y A description of the parameter 'y'.
#' @returns The sum of 'x' and 'y'.
#' @export
#' @examples
```

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