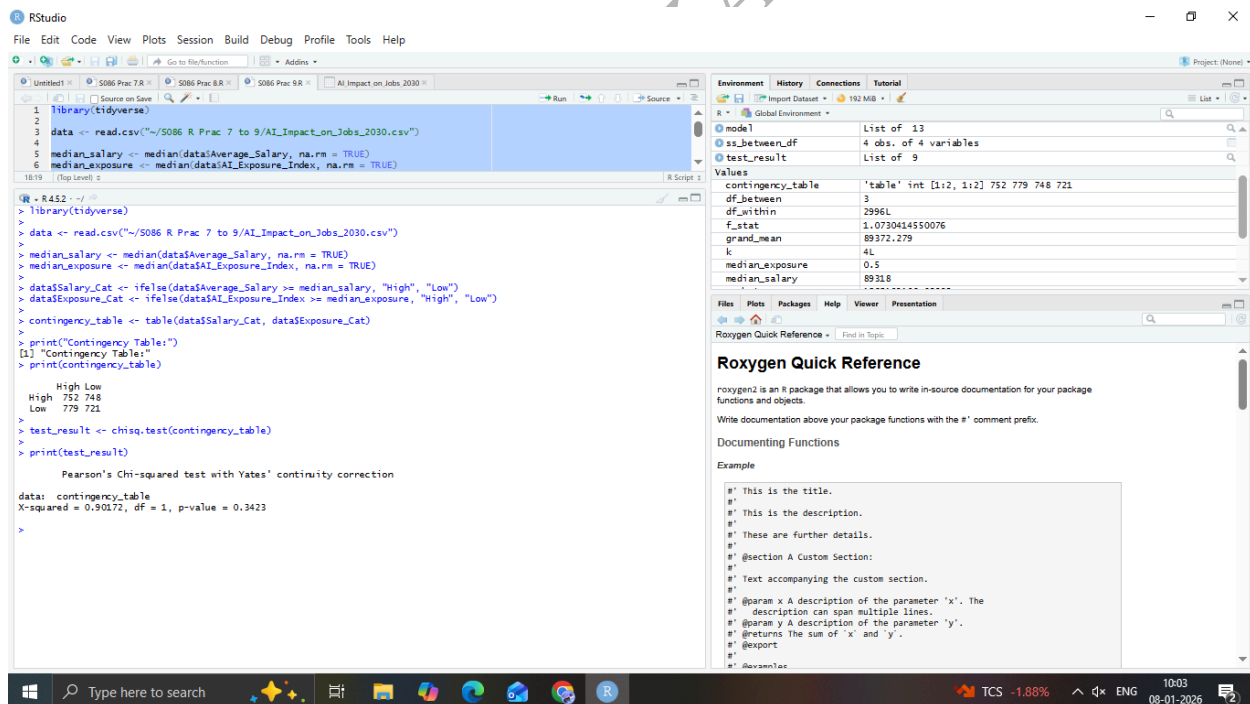


SHETH L.U.J AND SIR M.V. COLLEGE

SUBJECT NAME: data analysis

PRACTICAL 9

AIM: Conducting Chi-square tests using `chisq.test()` (R)



```
1 library(tidyverse)
2
3 data <- read.csv("~/S086 R Prac 7 to 9/AI_Impact_on_Jobs_2030.csv")
4
5 median_salary <- median(data$Average_Salary, na.rm = TRUE)
6 median_exposure <- median(data$AI_Exposure_Index, na.rm = TRUE)
7
8 data$Salary_Cat <- ifelse(data$Average_Salary >= median_salary, "High", "Low")
9 data$Exposure_Cat <- ifelse(data$AI_Exposure_Index >= median_exposure, "High", "Low")
10
11 contingency_table <- table(data$Salary_Cat, data$Exposure_Cat)
12
13 print("Contingency Table:")
14 [1] "Contingency Table:"
15 print(contingency_table)
16
17      High Low
18 High  752 748
19 Low   779 721
20
21 test_result <- chisq.test(contingency_table)
22
23 print(test_result)
24
25      Pearson's Chi-squared test with Yates' continuity correction
26
27 data:  contingency_table
28 X-squared = 0.90172, df = 1, p-value = 0.3423
29
30 >
```

The screenshot shows the RStudio interface. The console displays the output of the R script, including the contingency table and the results of the chi-square test. The environment pane shows the objects created in the script, including the contingency table and the test result. The Files pane shows the project structure, and the Help pane shows the Roxygen Quick Reference.

PURVI ROSHAN KARKERA

S086

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