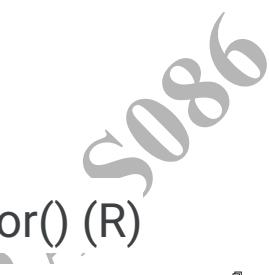


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SUBJECT NAME:data analysis

PRACTICAL 12

AIM:Generating correlation matrices using `cor()` (R)



RStudio

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R Script

```
library(ggplot2)
library(dplyr)
ai_data <- read.csv("~/5086 PRAC 10 TO 12/AI_Impact_on_Jobs_2030.csv")
numeric_cols <- ai_data %>%
  select(Average_Salary, AI_Exposure_Index, Automation_Probability_2030) %>%
  na.omit()
cor_matrix <- cor(numeric_cols)
print("Correlation Matrix")
print(round(cor_matrix, 2))
Average_Salary AI_Exposure_Index Automation_Probability_2030
Average_Salary 1.00 -0.02 -0.01
AI_Exposure_Index -0.02 1.00 0.01
Automation_Probability_2030 -0.02 0.01 1.00
col_palette <- colorRampPalette(c("#B84444", "#EE9988", "#FFFFFF", "#77ADD8", "#4477AA"))(200)
heatmap(cor_matrix,
        col = col_palette,
        main = "Correlation Heatmap-S086",
        Rowv = NA, Colv = NA,
        symm = TRUE,
        margins = c(12, 12),
        cexRow = 1.2, cexCol = 1.2)
```

Environment History Connections Tutorial

global environment

data_Sumset

dataset_info

fdports

numeric_cols

Values

col_palette

high_low_plot

pie_chart

plot_box

plot_box_edu

plot_box_risk

plot_hist

490 Mill

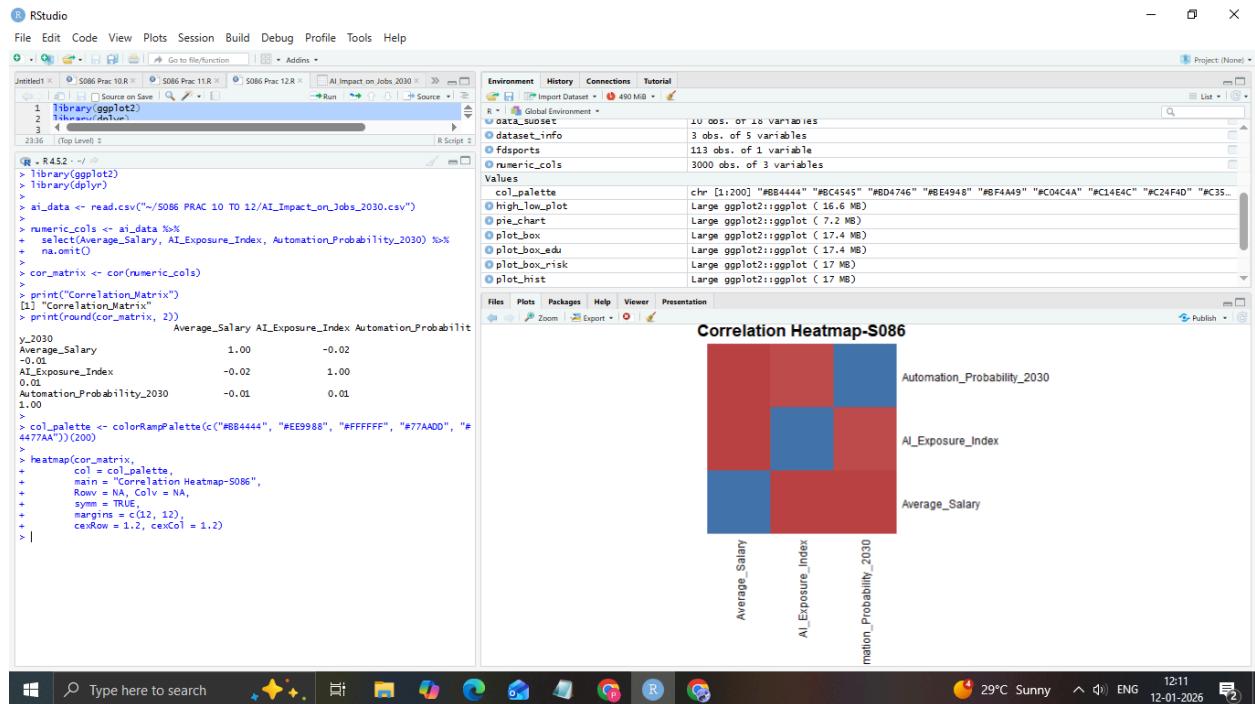
Correlation Heatmap-S086

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S086

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