# *Impact of Economic and Environmental Factors on Public Health*

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Shokoufeh Naseri 466750

24 January, 2025

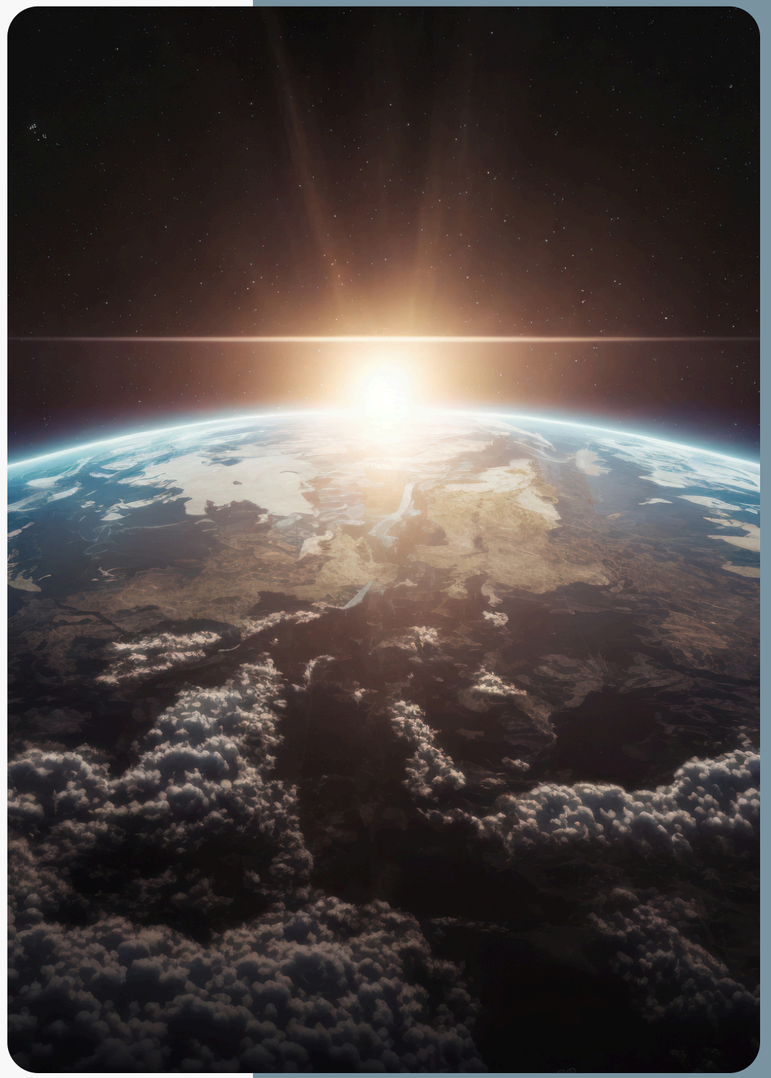
# *Agenda*

1. Introduction
2. RQ1: **How does economic prosperity influence life expectancy and infant mortality?**
3. RQ2: **What is the relationship between CO2 emissions and various socio-environmental factors?**
4. Conclusions

# *Introduction*

**This project aims** to explore the relationships between economic indicators, environmental conditions, and public health outcomes across different countries.

**Global Country Information Dataset 2023**



# Research Question 1

*How does economic prosperity influence life expectancy and infant mortality?*

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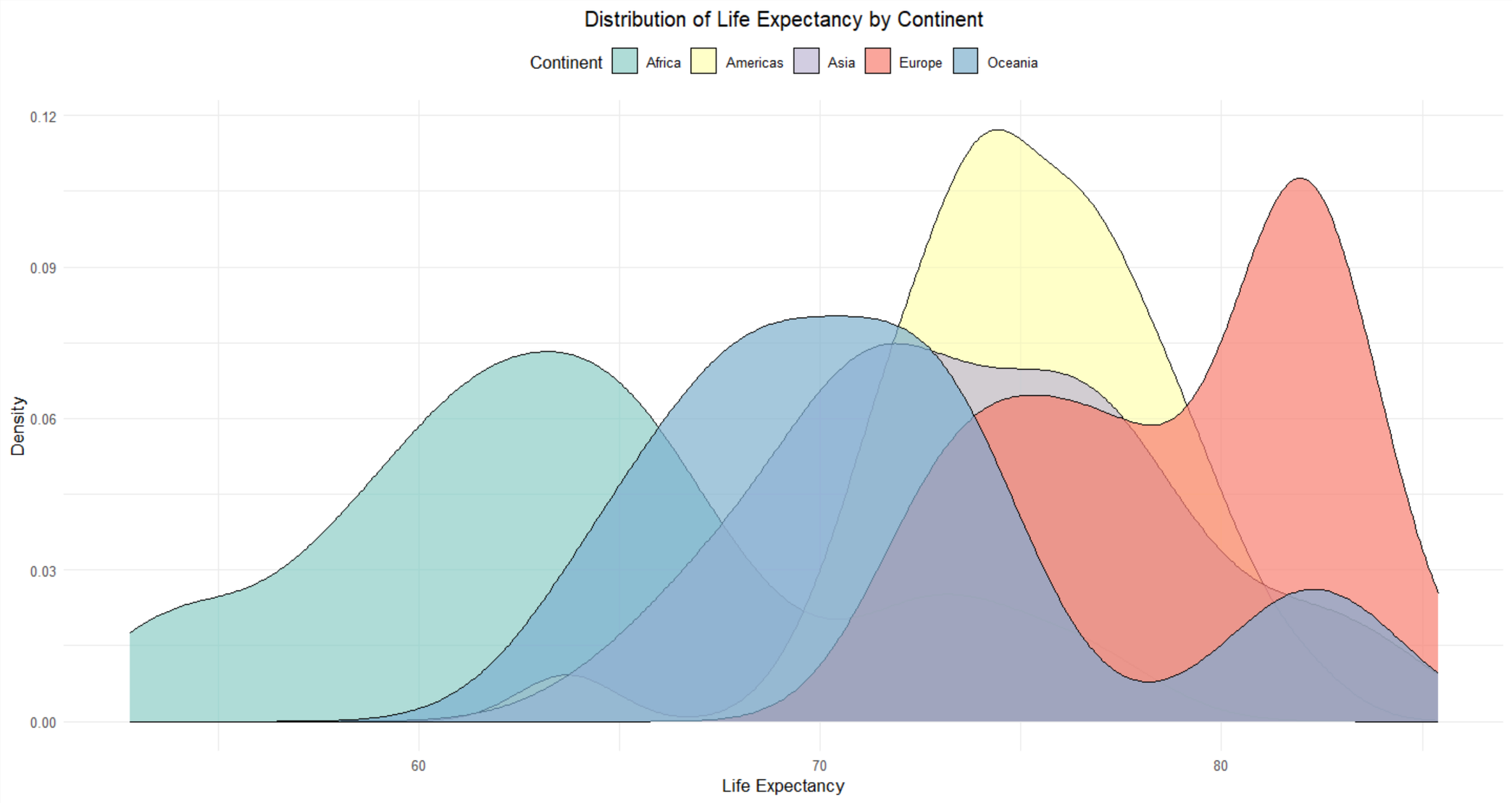

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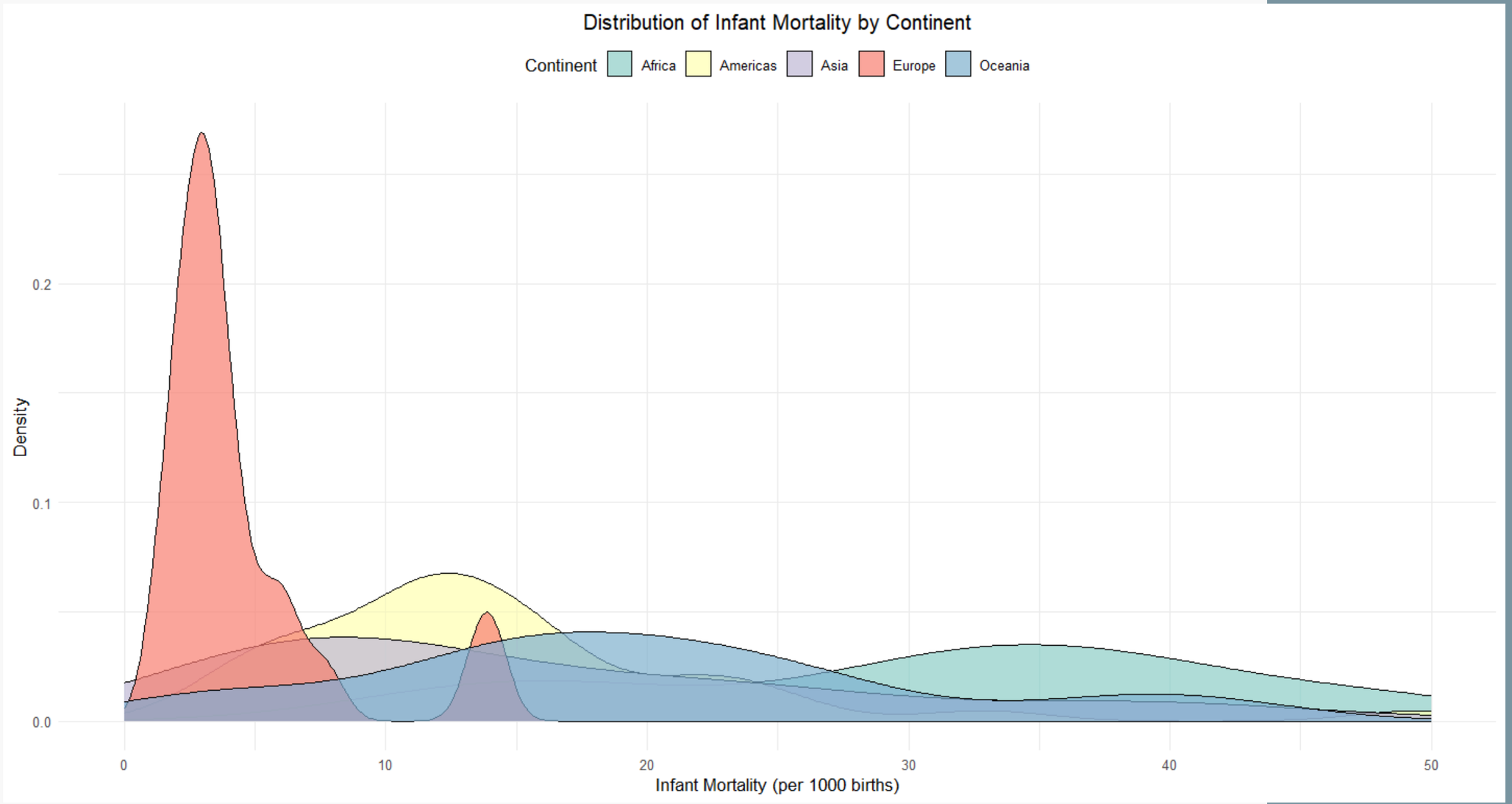

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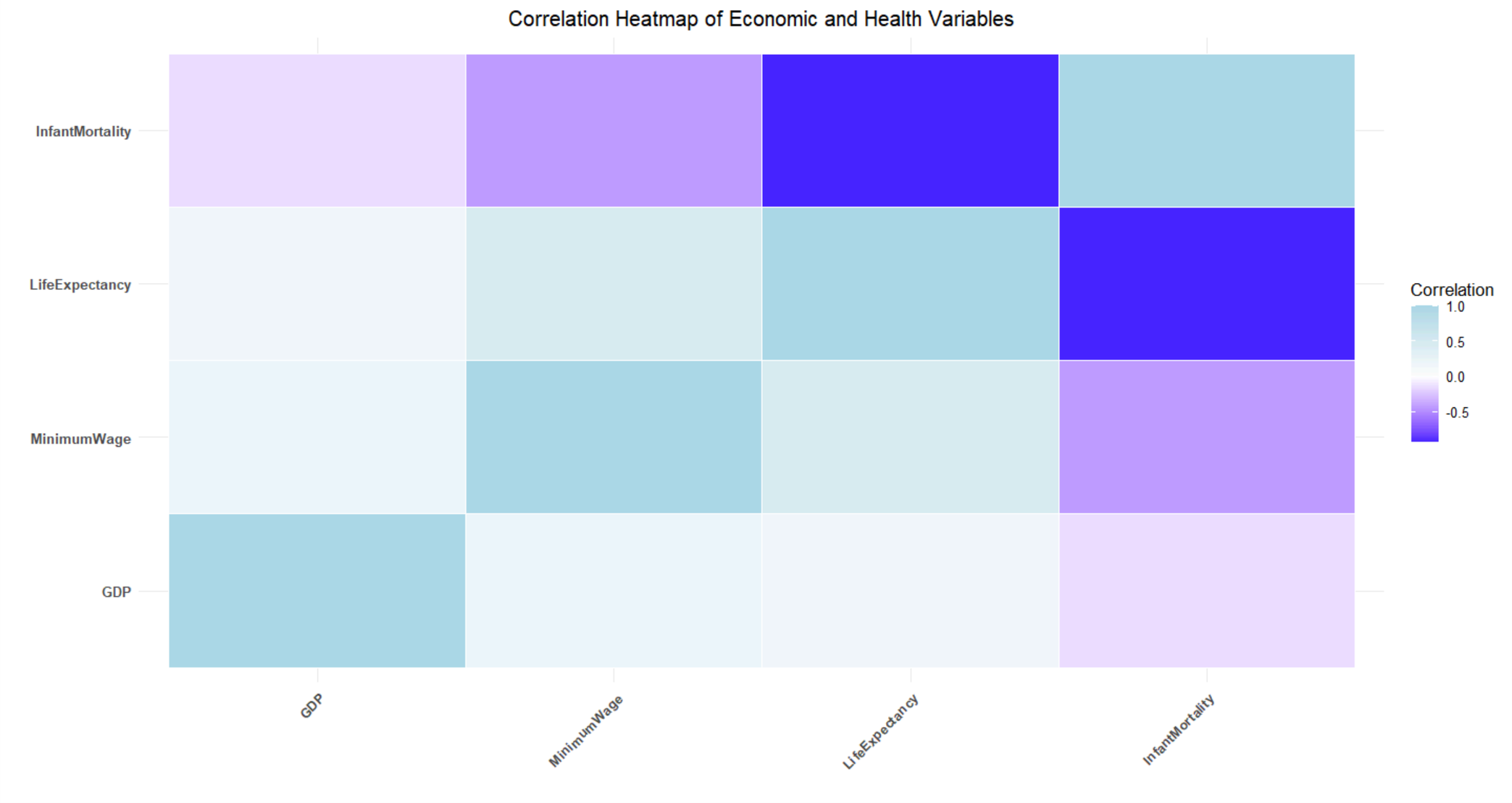

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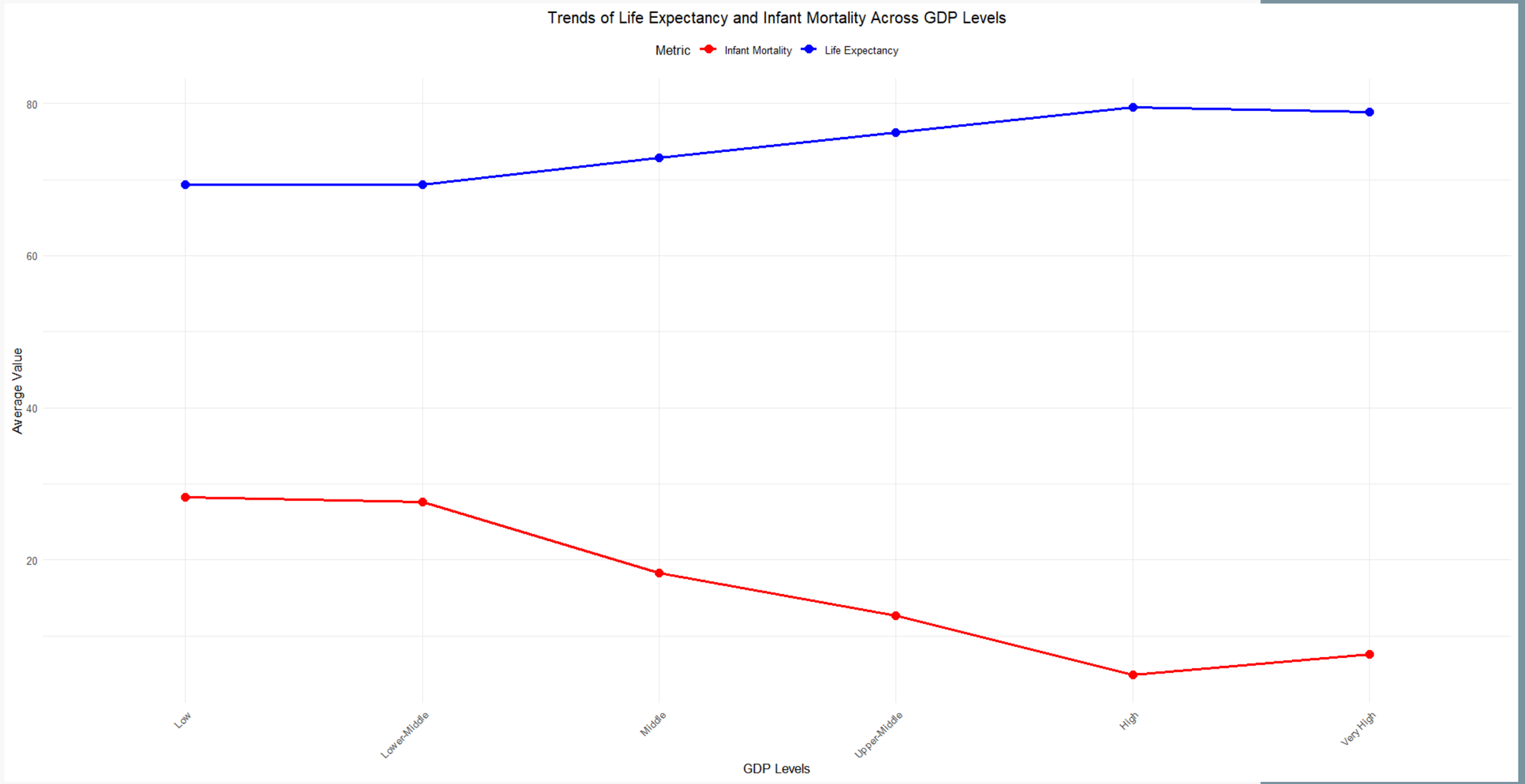

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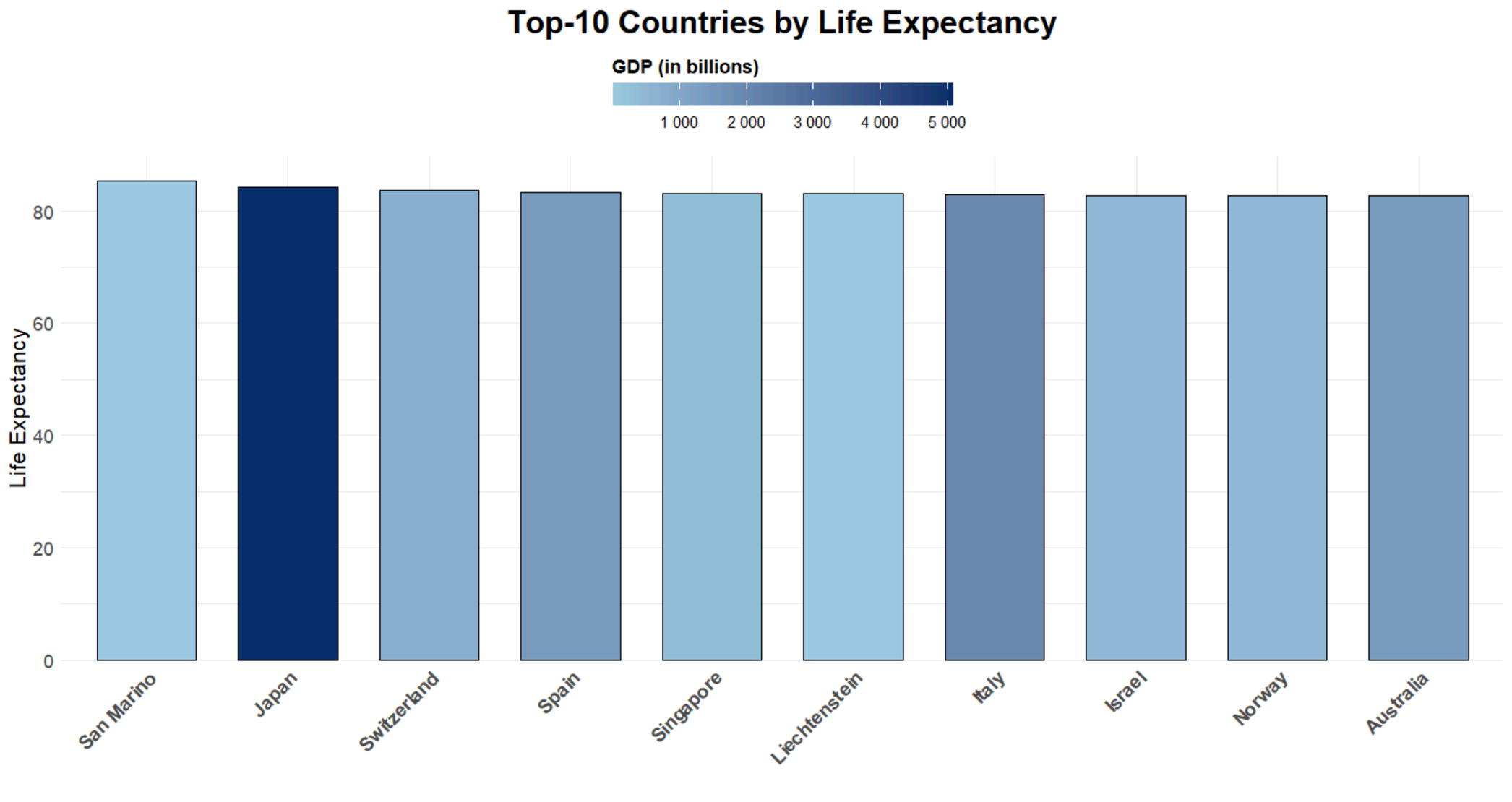

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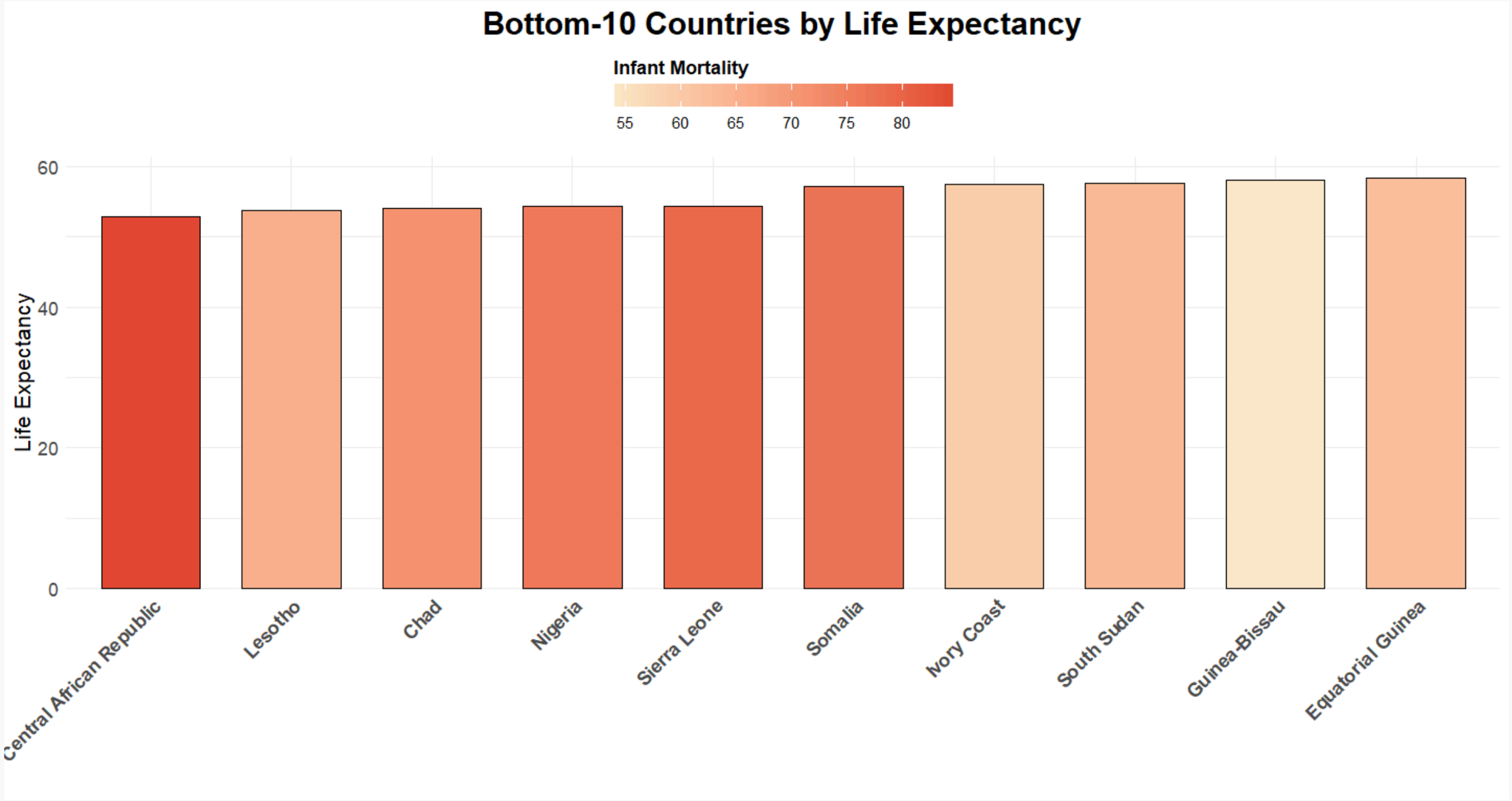
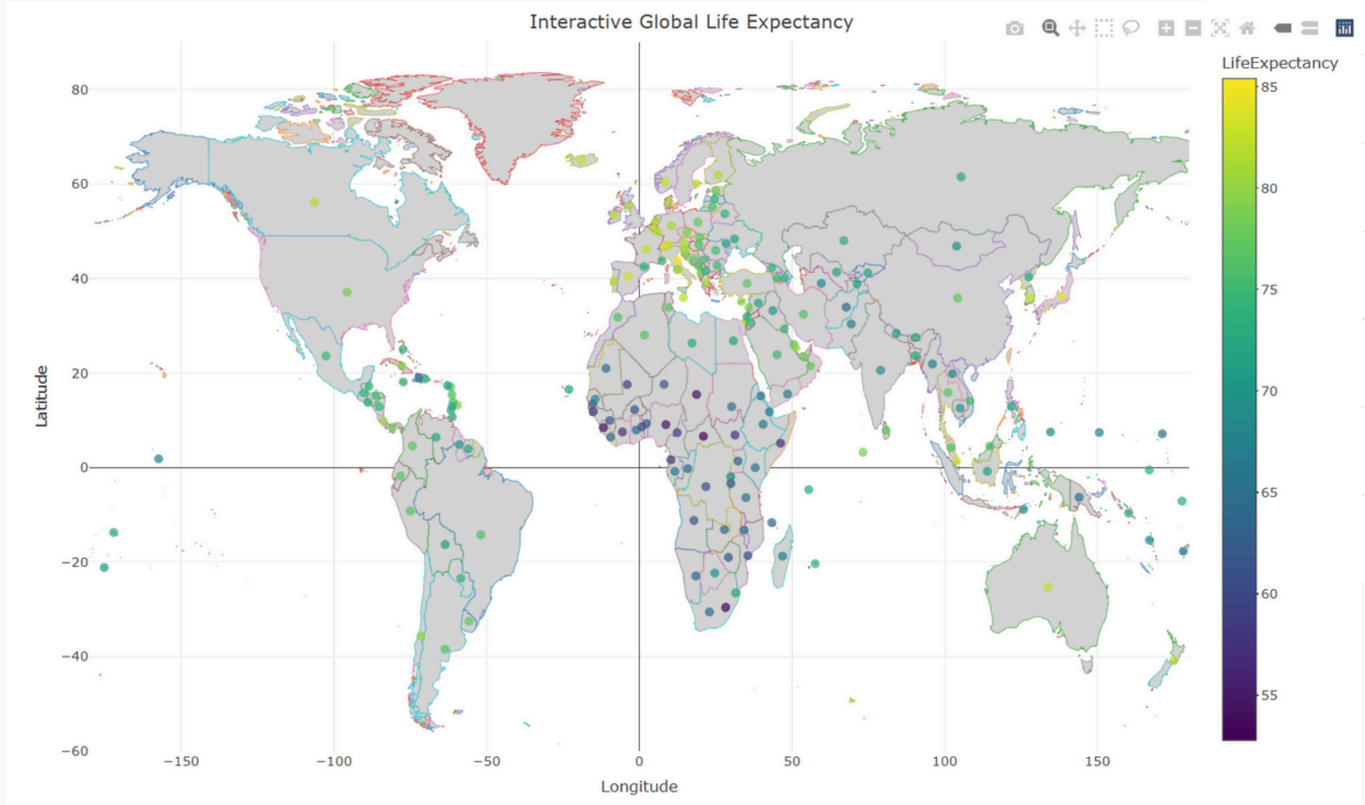
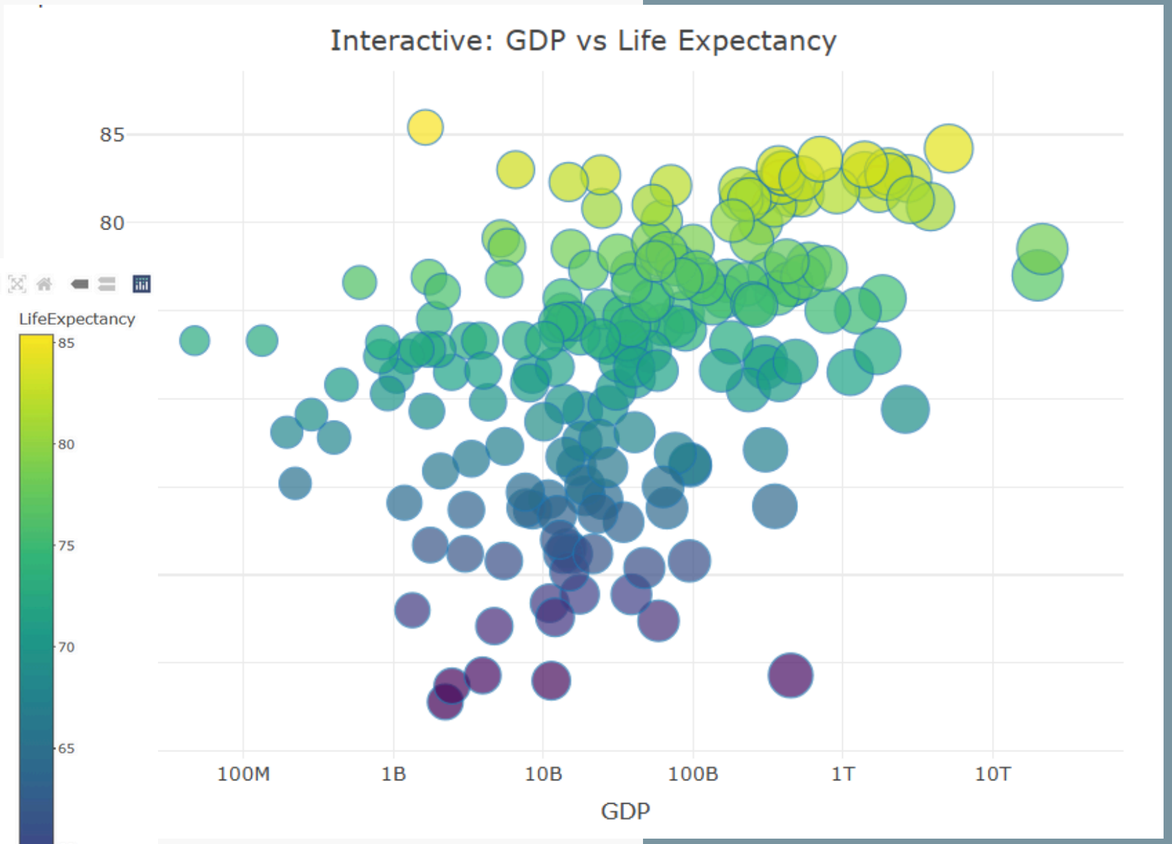


# *Research Question 1*

*How does economic prosperity influence life expectancy and infant mortality?*

## Interactive Graphs ("Interactive_visualisation.html")



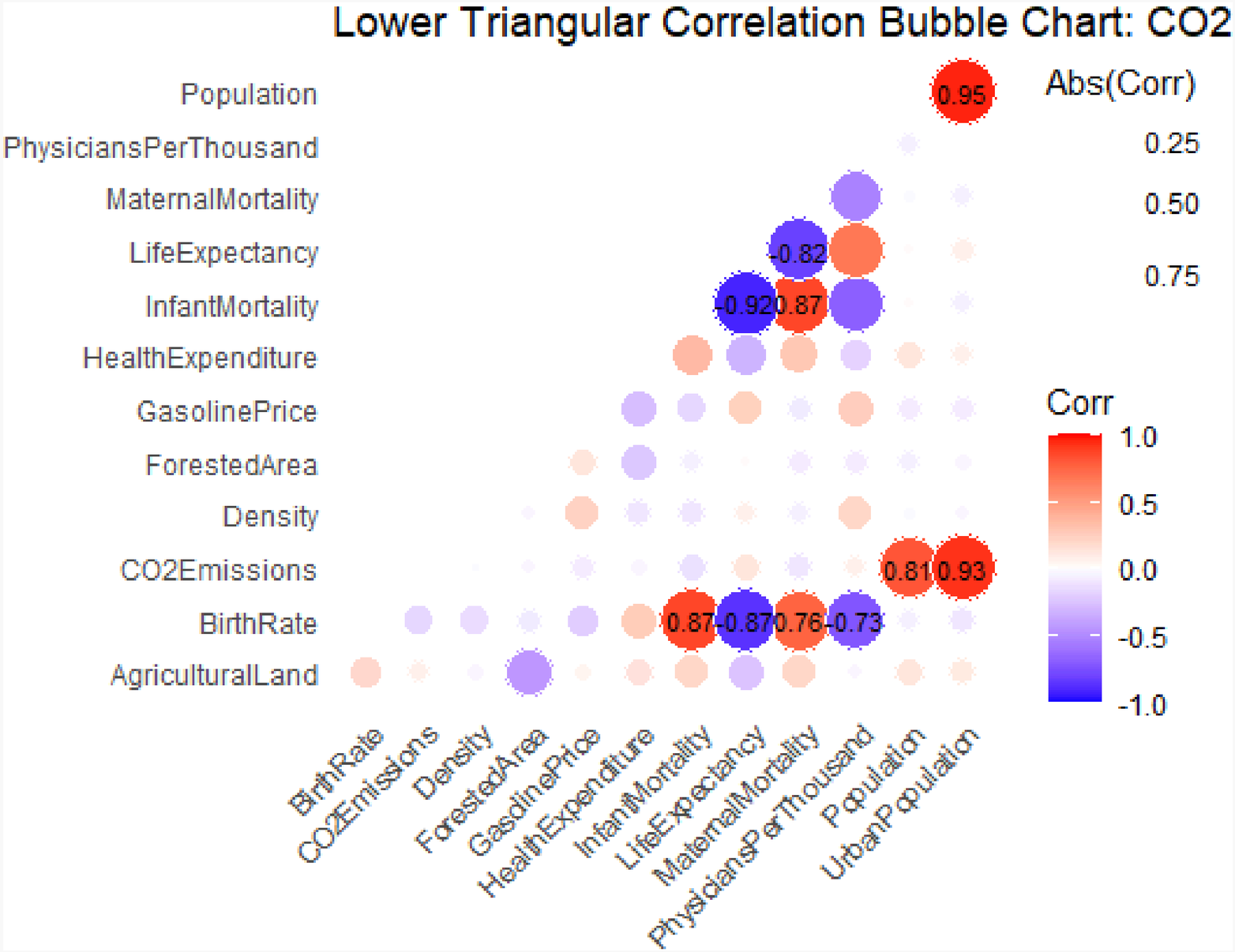
# Introduction

The second part of the project examines the relationship between $CO_2$ emissions and socio-environmental factors, including life expectancy, infant mortality, urbanization, gasoline prices, and forested areas. By analyzing the top 10 $CO_2$-emitting countries.

# Bubble chart

## Research Question 2

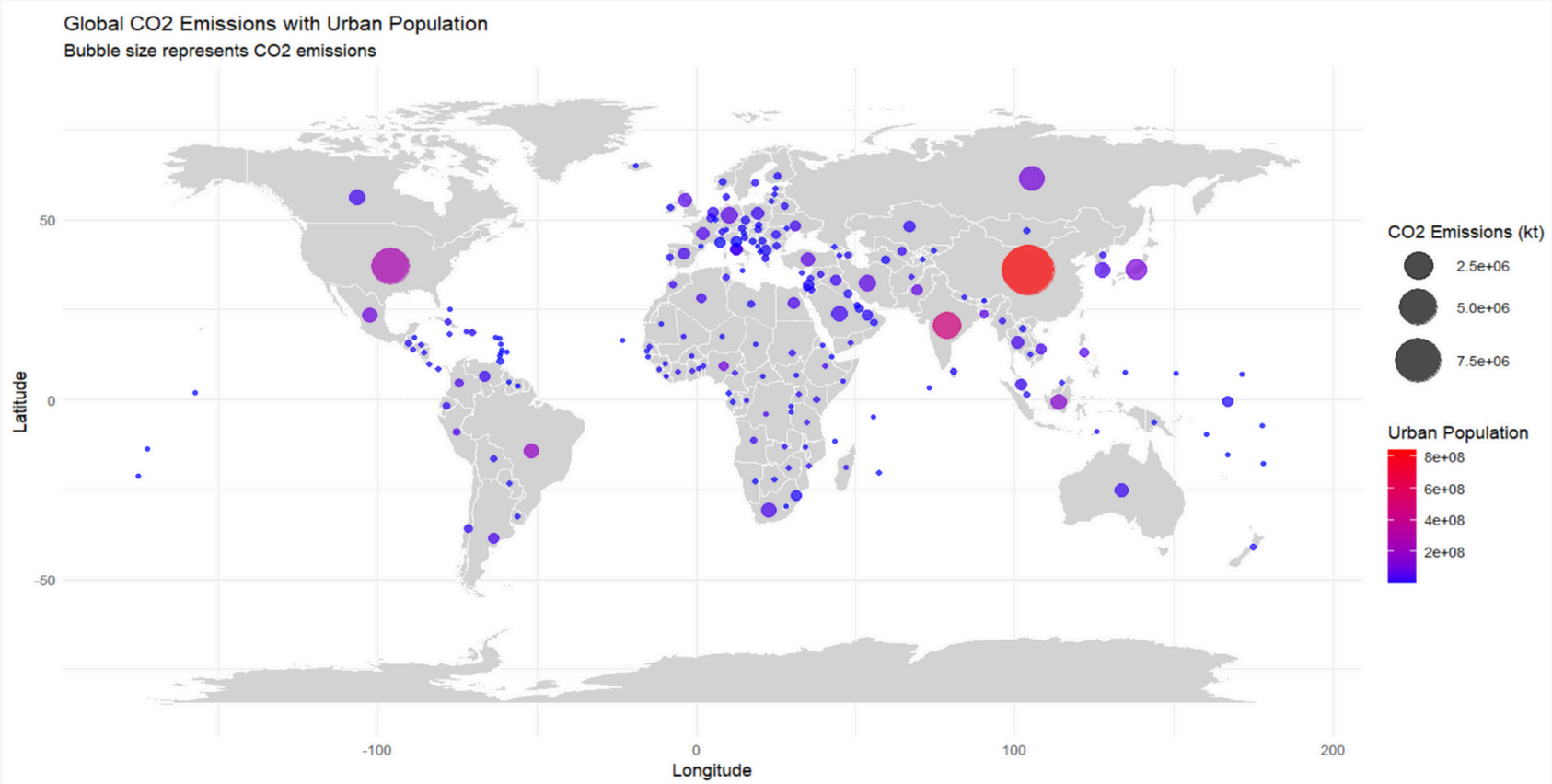
*The correlation between the selected features that have potential impact on or influence by $CO_2$ emissions.*



# Bubble Map

## Research Question 2

$CO_2$ emissions across different countries in relation to the scale of their urban populations

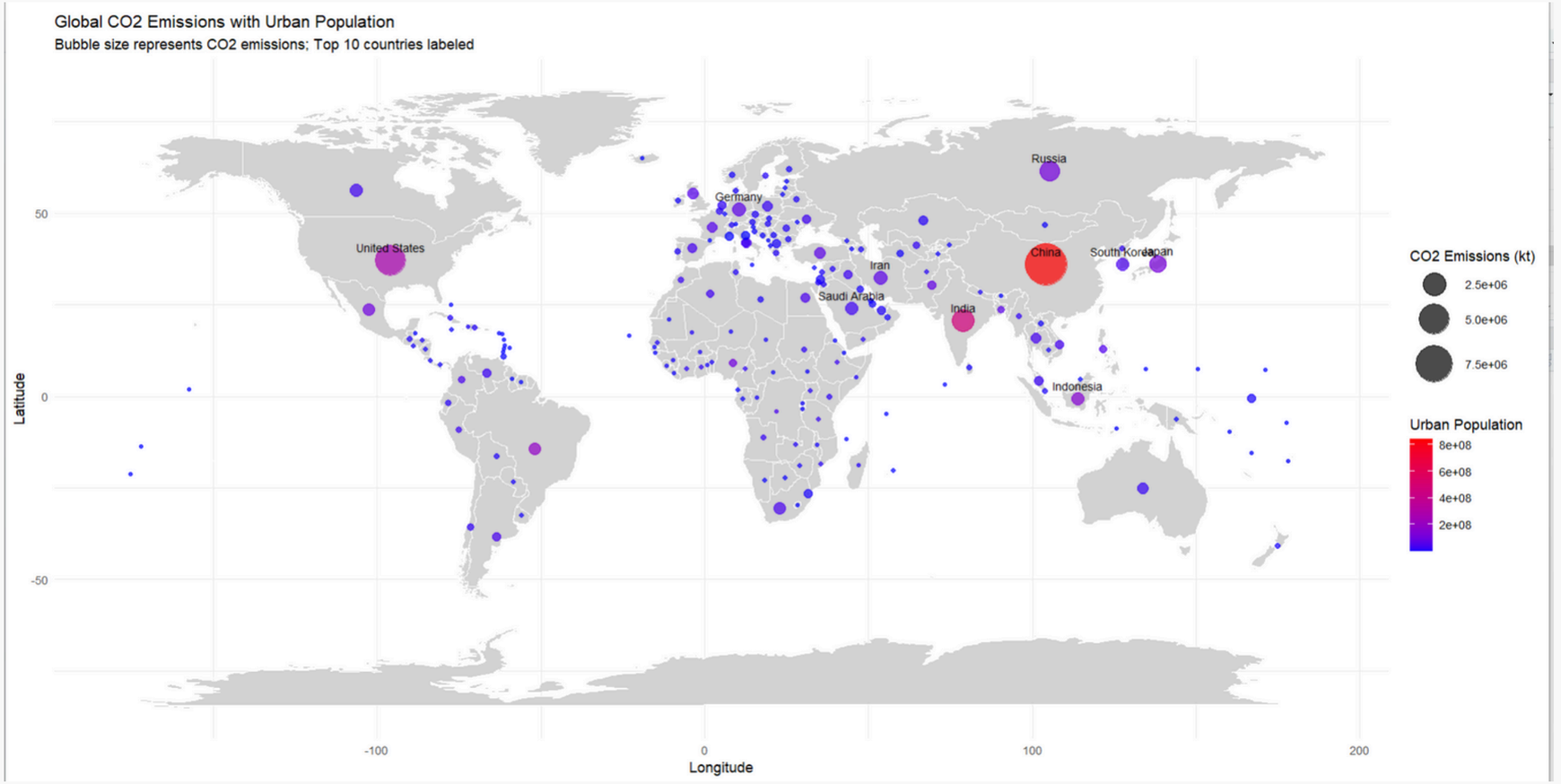


# Bubble Map

*Research Question 2*

*The top ten countries by $CO_2$ emissions*

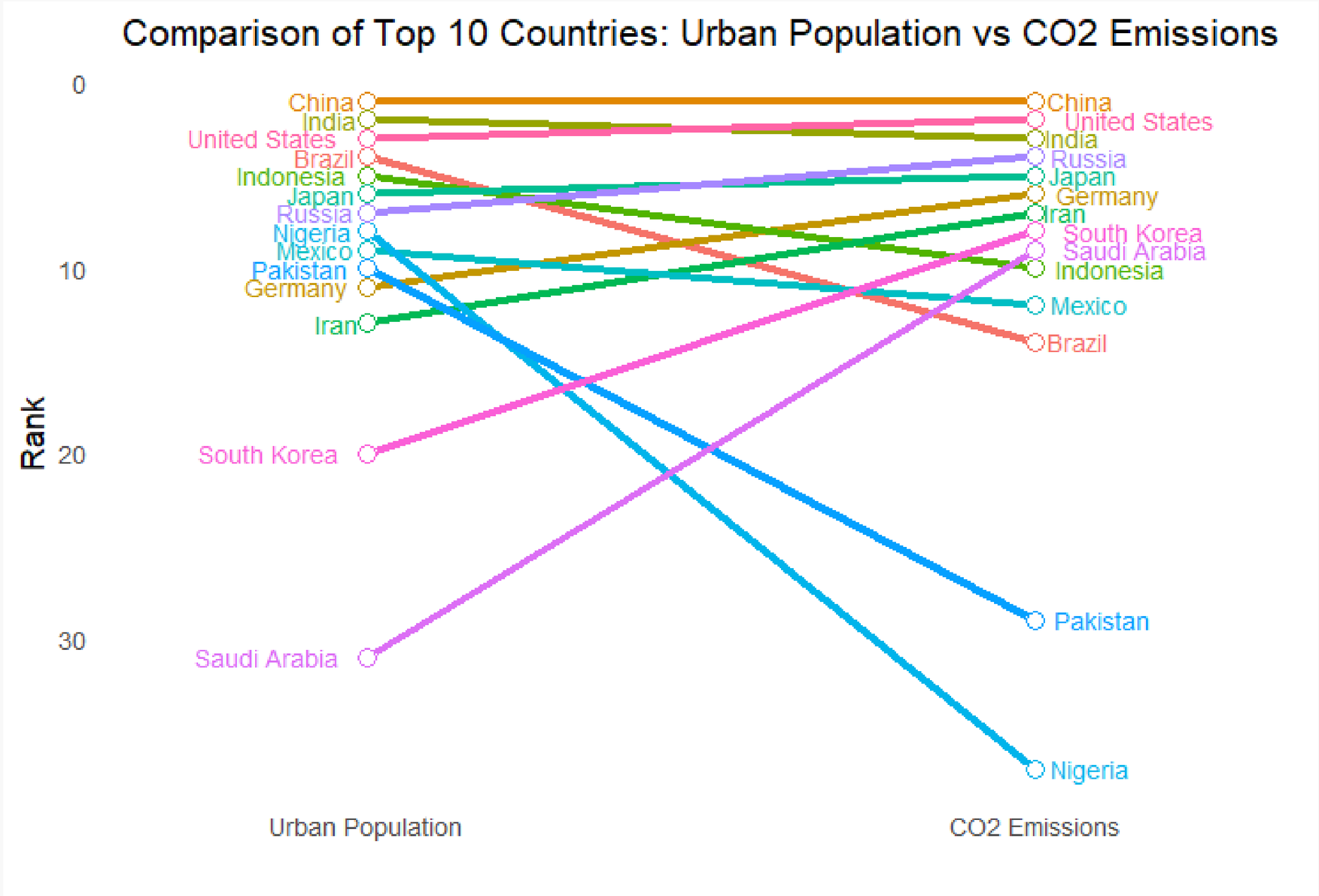
*China, United States, India, Russia, Japan, Germany, Iran, South Korea, Saudi Arabia, and Indonesia.*



# Bump Chart

*Research Question 2*

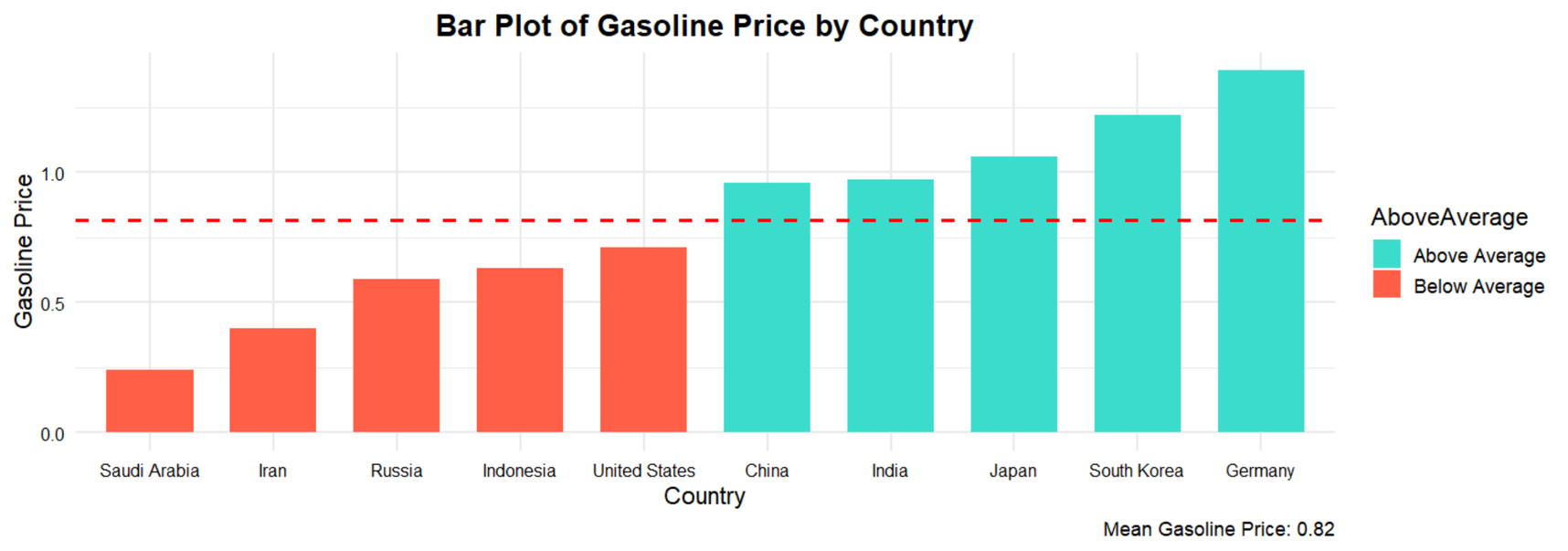
*This analysis compares the top 10 countries based on their urban population and CO2 emissions.*

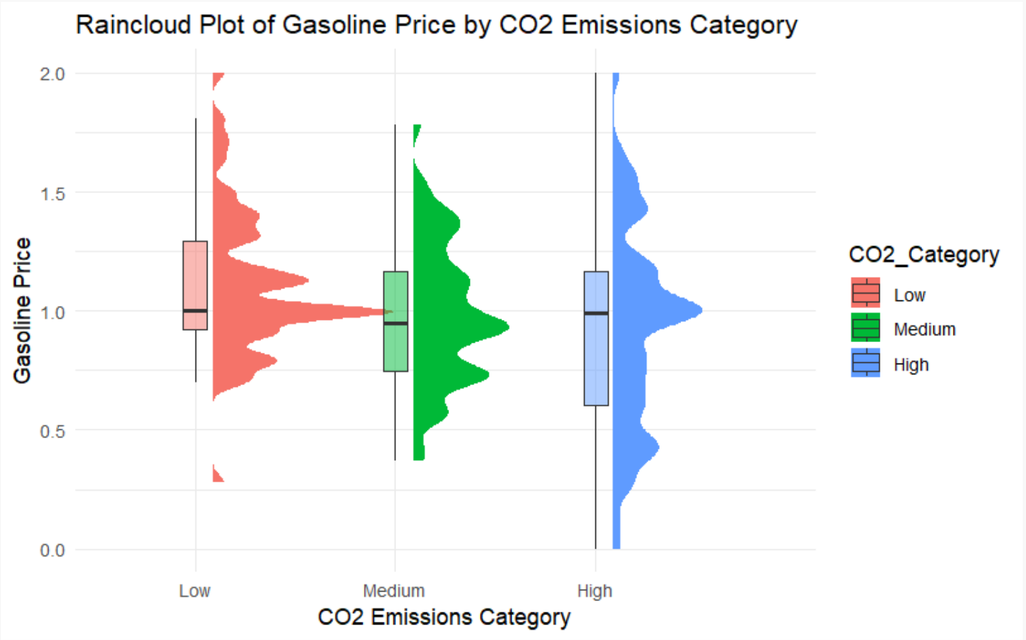


## Research Question 2

*Does the price of gasoline influence $CO_2$ emissions?*

# Bar Plot & Raincloud Plot



## Research Question 2

*Does the scale of forest area influence $CO_2$ emissions?*

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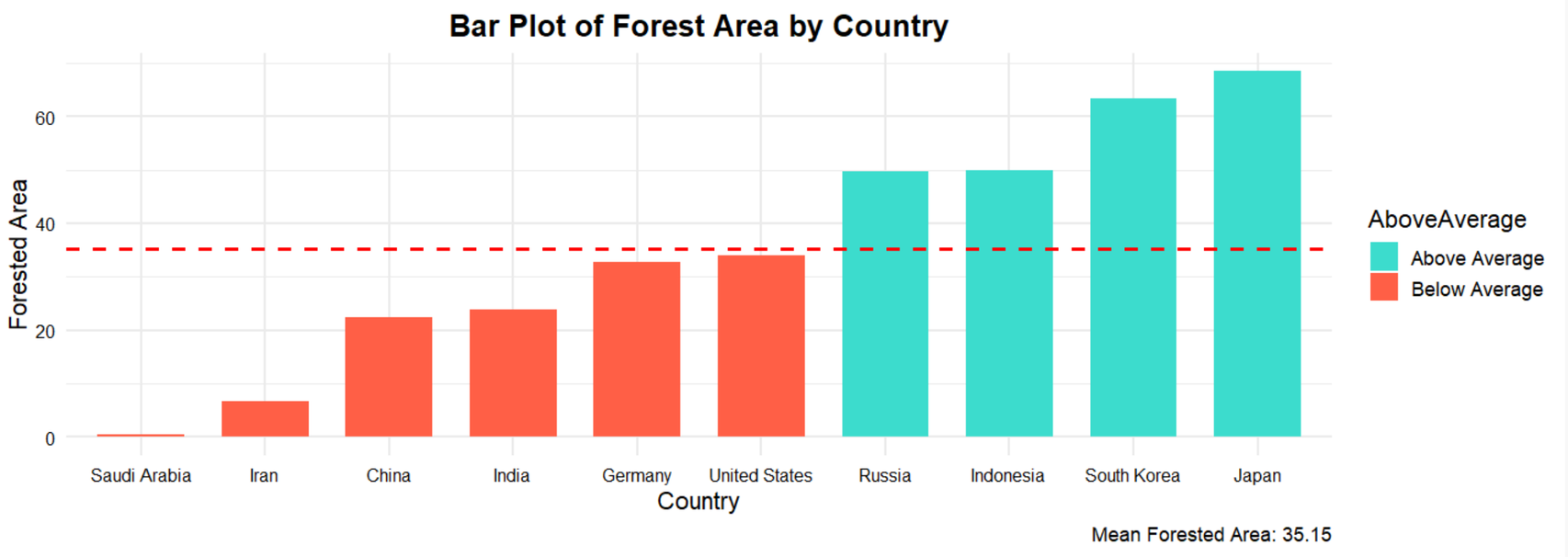
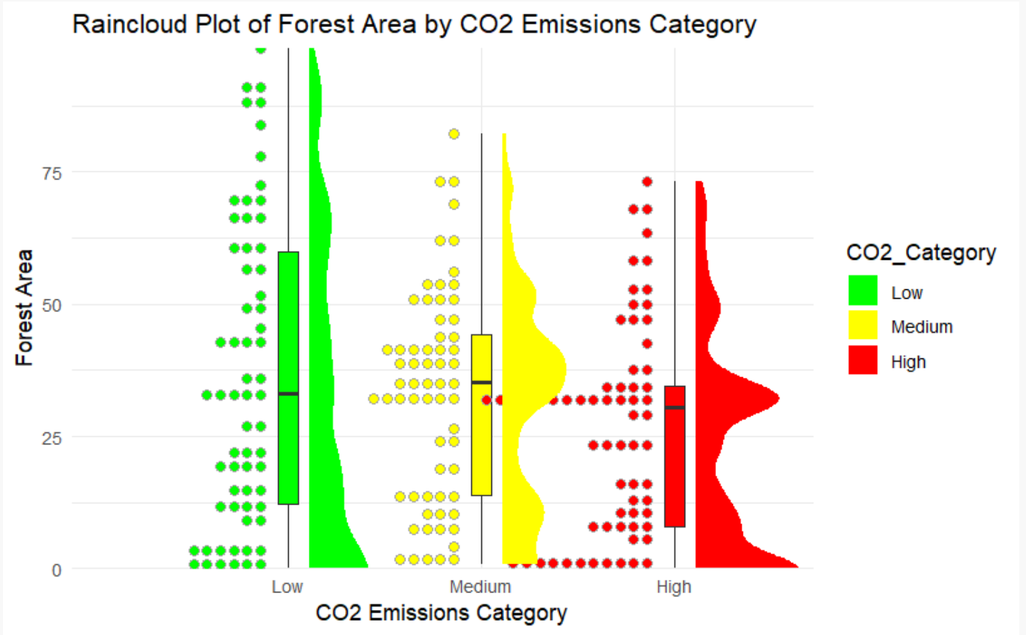
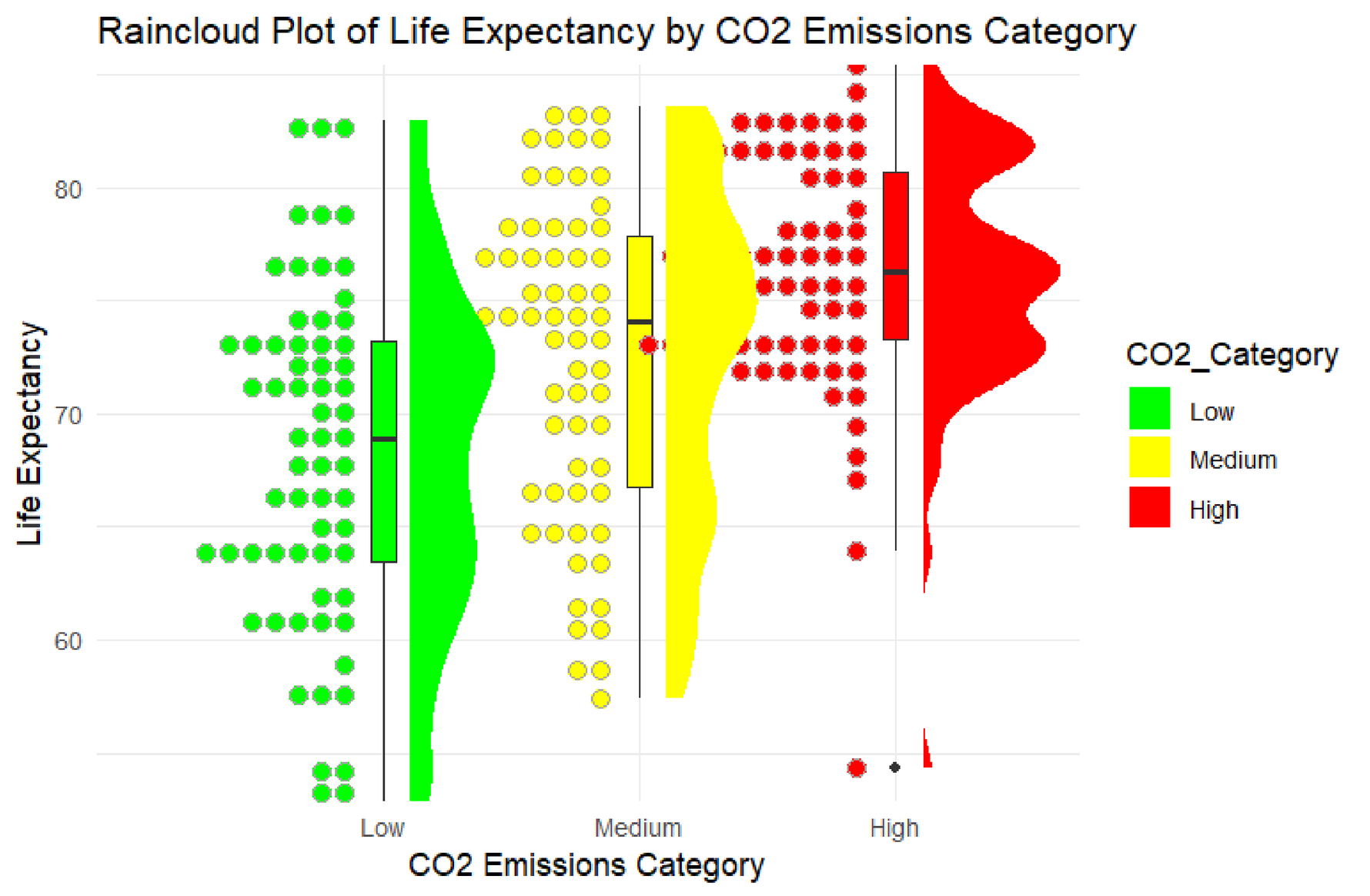


## Research Question 2

*Does high $CO_2$ emissions have a negative impact on life expectancy?*

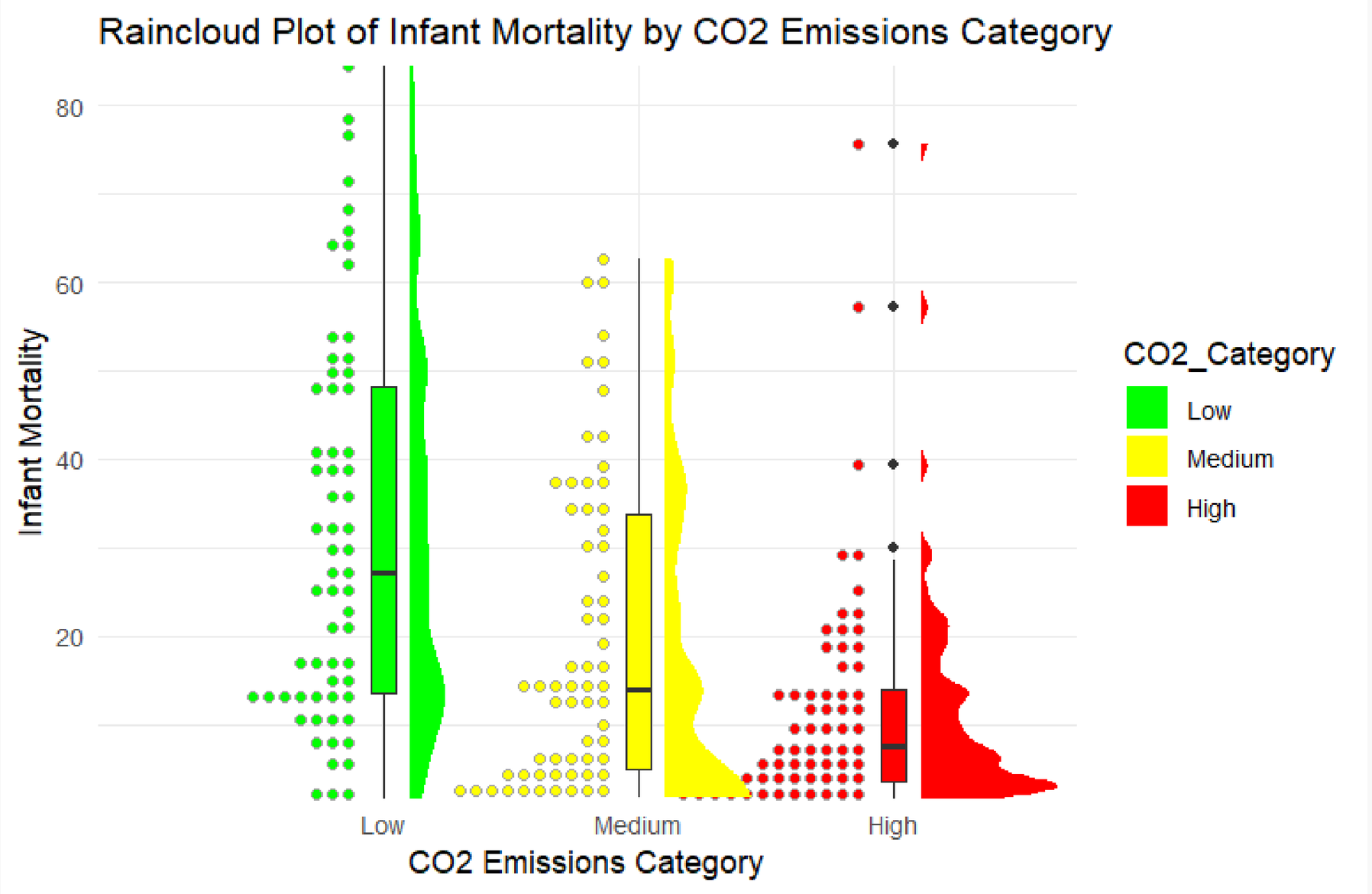
# Raincloud Plot



## Research Question 2

*Does high $CO_2$ emissions have a positive impact on infant mortality?*

# Raincloud Plot



*Thank you*