Data Presentation and Visualization

Scatter Plots, Bubble Charts, Density Maps

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Table of Contents
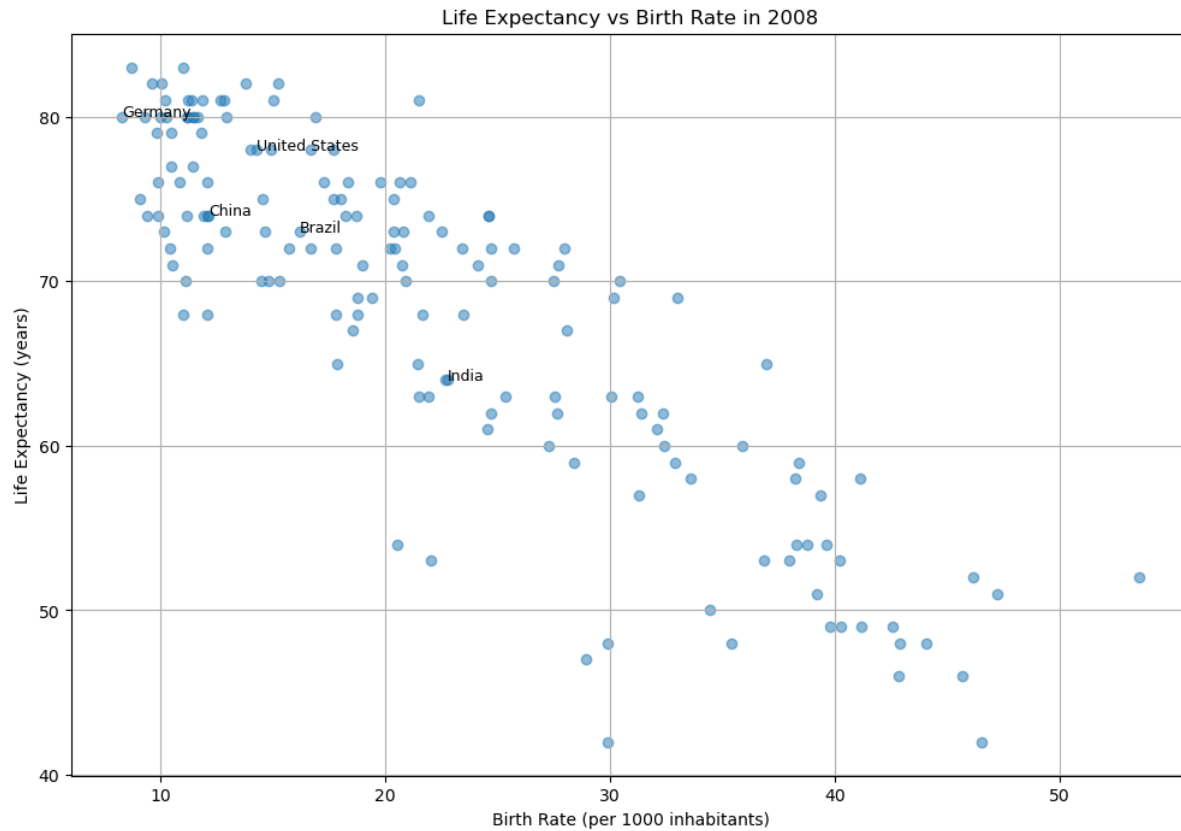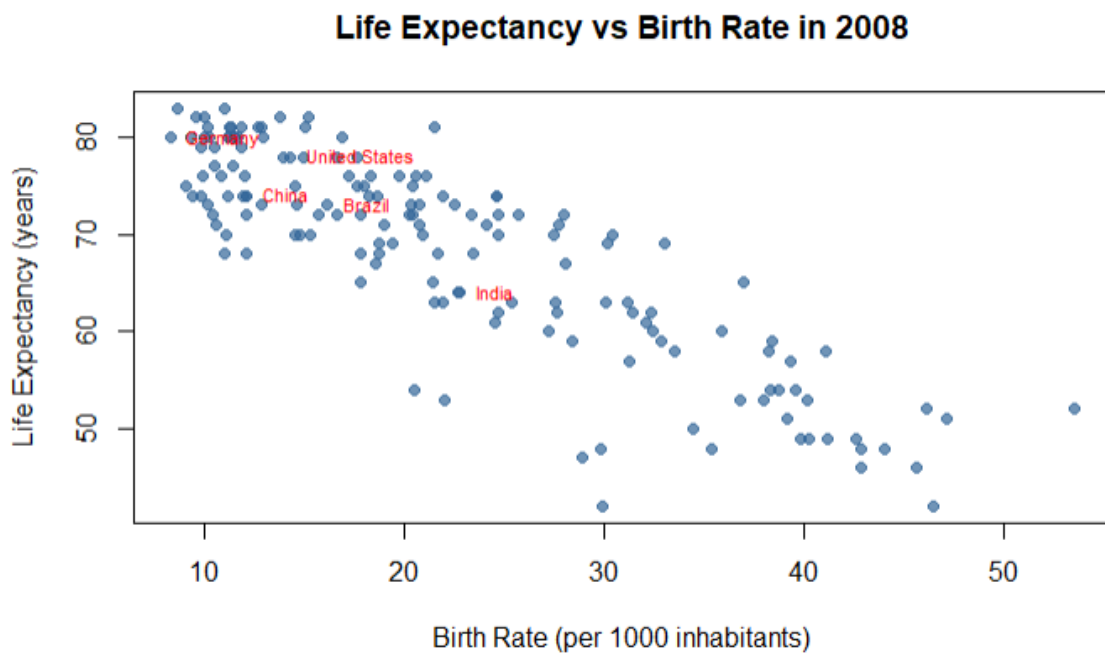
Introduction

The goal is to create a consolidated document displaying three charts generated using Python, R, and Power BI. The chart types are scatter plots, bubble charts, and density maps.

I have used three datasets related to life expectancy, birth rates, and television sizes over time. The television size file was originally a .txt file, but I converted it to a .a .csv file for easy parsing and loading.
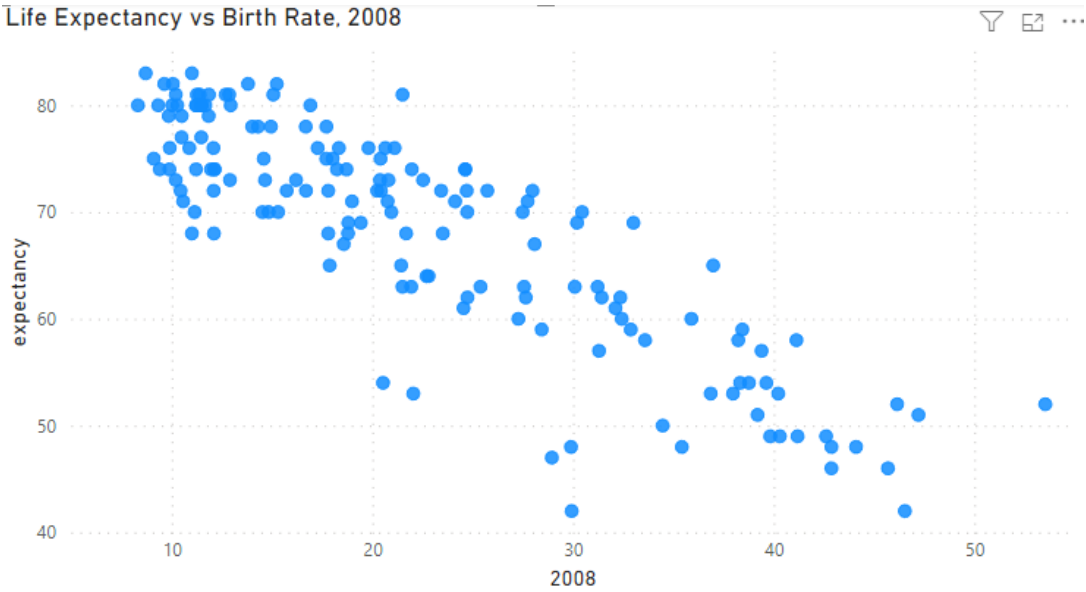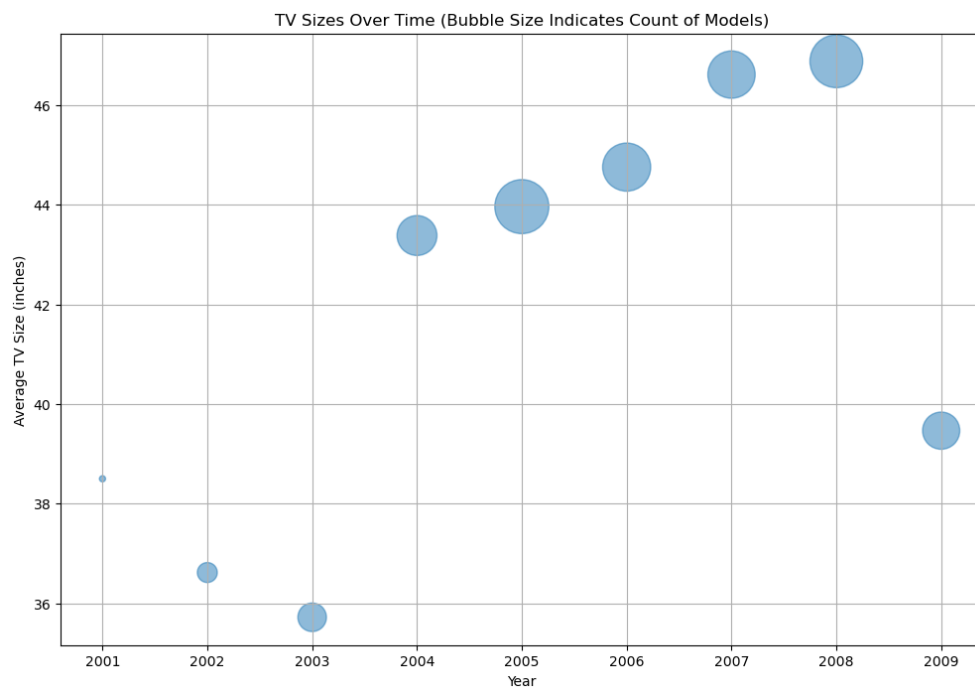
Scatter Plot – Python

Life Expectancy vs Birth Rate in 2008

Scatter Plot – R

Life Expectancy vs Birth Rate in 2008

Scatter Plot – Power BI

Life Expectancy vs Birth Rate, 2008

Bubble Chart – Python

TV Sizes Over Time (Bubble Size Indicates Count of Models)

Bubble Chart – R

TV Sizes Over Time (Bubble Size Indicates Count of Models)
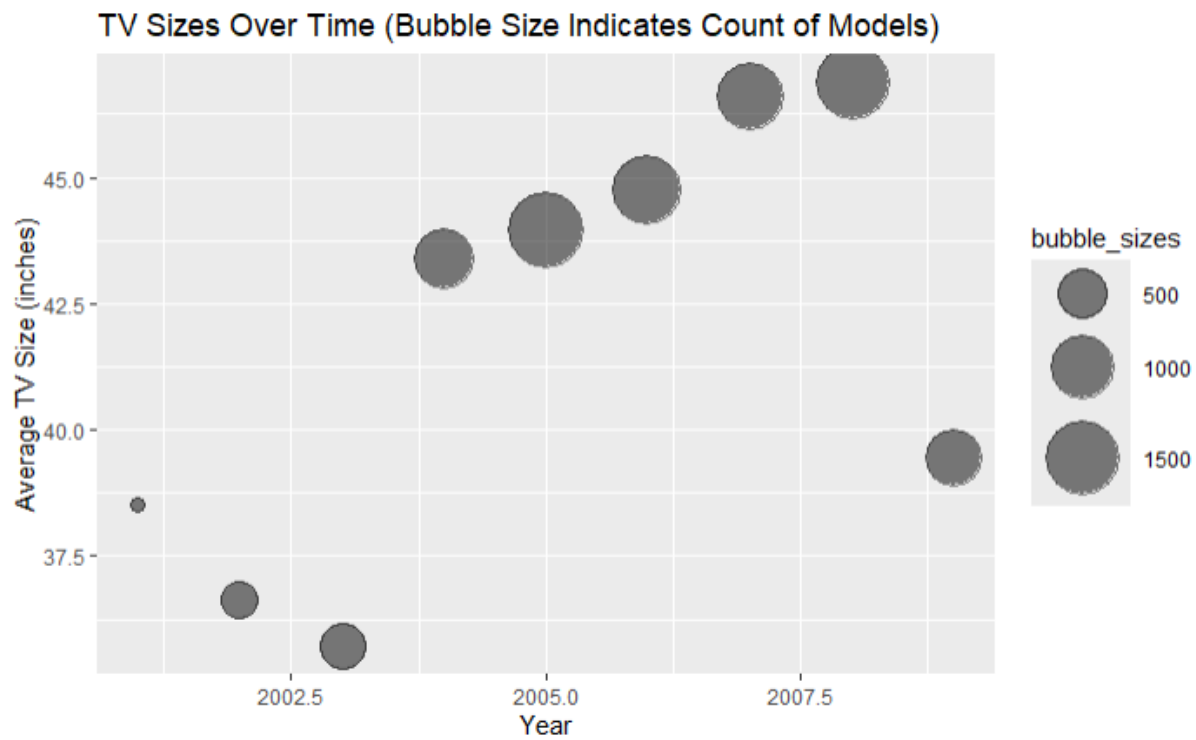
Bubble Chart – Power BI

Average of year, Average of size and Count of size by year

Density Map – Python

Life Expectancy by Country
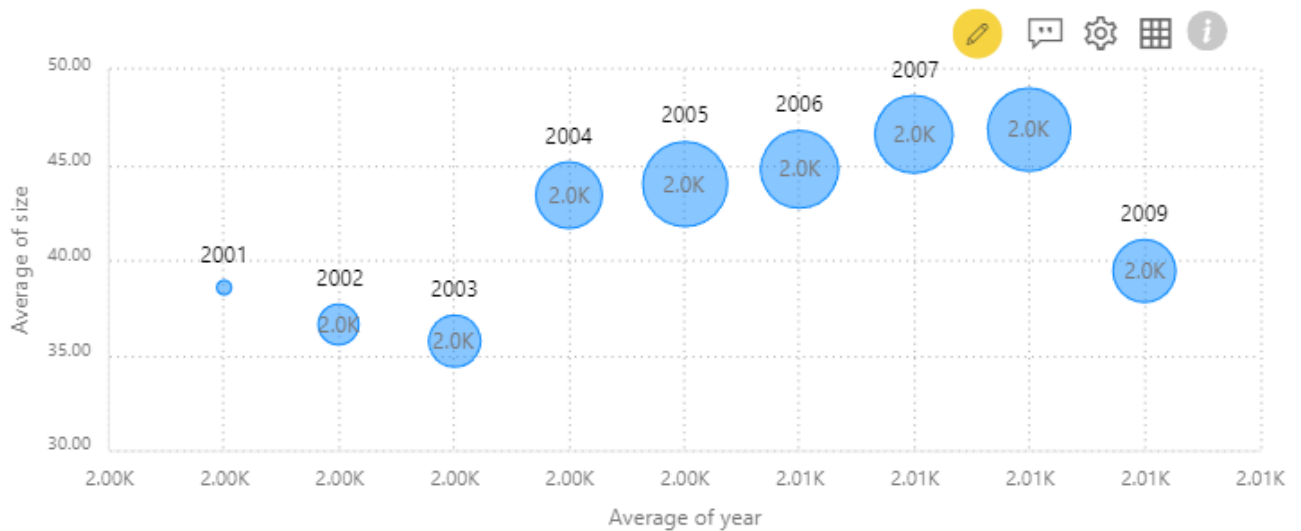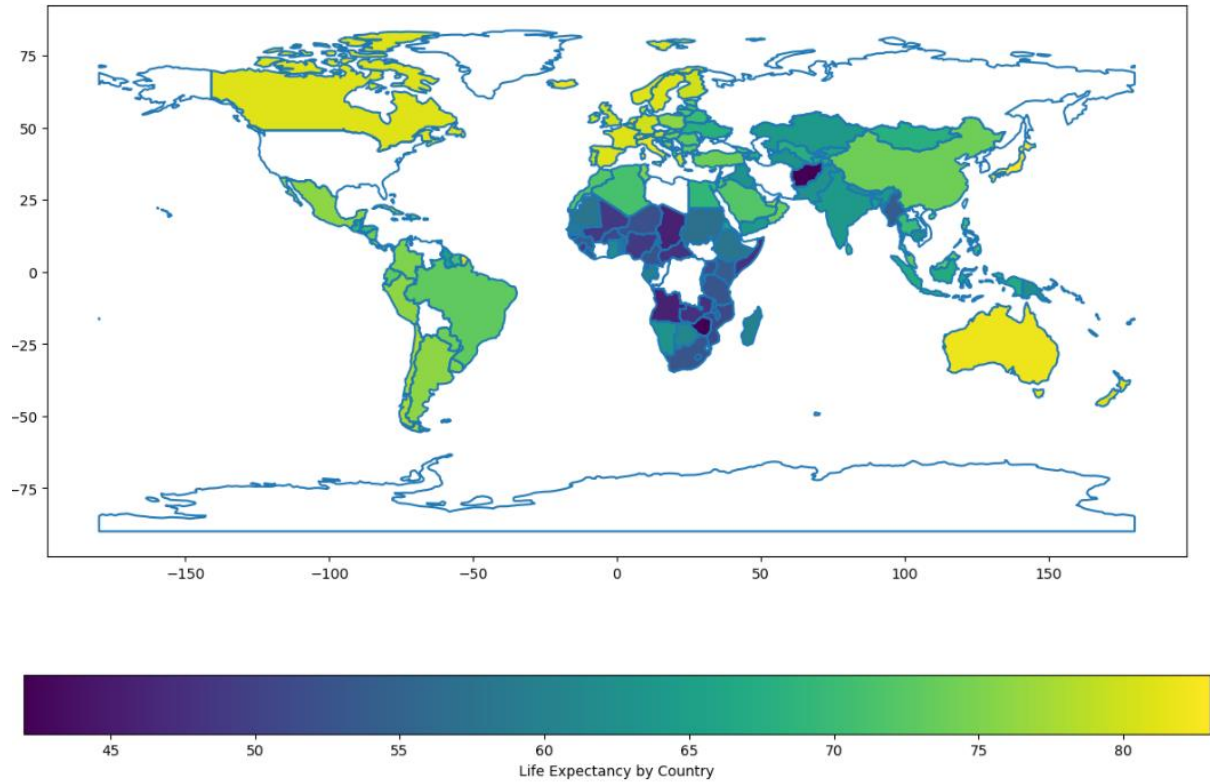
Density Map – R
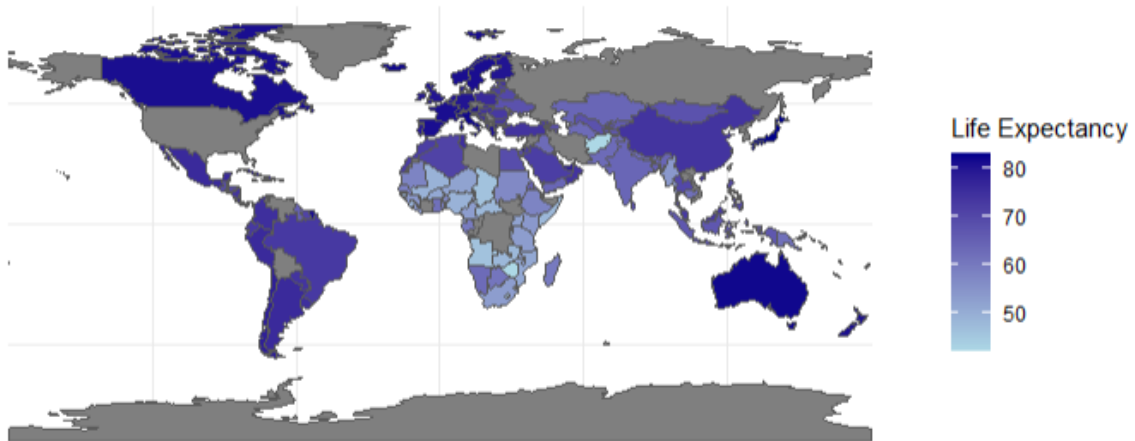
Life Expectancy

Density Map – Power BI

Country and Life Expectancy

expectancy ●42 ●46 ●47 ●48 ●49 ●50 ●51 ●52 ●53 ●54 ●56 ●57 ●58 ●59 ●60 ●61 ●62 ●63 ●64 ●65 ●66 ●67 ●68 ●69 ●70 ●71 ●72 ●73 ▶