

## Data Analysis Project

Data Analyst: (You)

Client/Sponsor: Random Health Insurance Company

### Purpose:

*Write a brief description of why this project is happening below. Why is this project happening? What are the goals?*

The goal of this project is to study common risk factors associated with insurance claims within the United States. This will be accomplished by exploring factors such as age, gender, pre-existing health conditions, and lifestyle choices and their impact on insurance premium prices. A few recommendations will be made to help stakeholders adjust the amount or type of coverage offered based on risk factors.

### Scope / Major Project Activities:

*What are the major parts of this project? List out the high-level steps, activities, or stages of the project, and give a brief description for each.*

Activity	Description
Data Cleaning and Preparation	Clean dataset to ensure consistency
Analysis	Identify trends and patterns in data
Create Visualization	Create a visualization to identify patterns and relationships
Final Report	Deliver a brief report with recommendations

### This project does not include:

*Specify the things that this project isn't responsible for doing (out of scope). For instance, "this project does not involve a summation of 2019 data analysis"*

- This project does not include insurance data for countries outside the U.S.
- It does not include an analysis of chronic illnesses or pre-existing conditions and premium prices.
- It does not take into consideration whether children impact risk pricing

### Deliverables:

*A specific list of things that your project will deliver.*

Deliverable	Description/ Details
Cleaned dataset	Remove empty or duplicate values to ensure consistency throughout dataset
Data Visualizations	Data visualizations showing the patterns for an increase in insurance premiums
Final Report	Summary of findings and a few recommendations for coverage plans

### Schedule Overview / Major Milestones:

*The expected schedule for the project. This can be defined by milestones (e.g. "all data is cleaned and processed"), periods of time ("Week 1 / Week 2"), or other ways based on the needs of the project.*

Milestone	Expected Completion Date	Description/Details
<i>Data Cleaning and Preparation</i>	<i>9/1/24</i>	<i>Completed data cleaning</i>
<i>Analysis</i>	<i>9/3/24</i>	<i>Completed analysis</i>
<i>Visualization</i>	<i>9/5/24</i>	<i>Completed visualization</i>
<i>Final Report</i>	<i>9/8/24</i>	<i>Completed report</i>

### \*Estimated date for completion: 9/9/24

*This is my "if all goes well and I have everything I need, this is when I'll be done" date.*