

Shiny User Guide

1. Purpose

This guide explains how to use the R Shiny demo application that complements the Power BI dashboard for technical validation and interactive experimentation.

2. Launching the App

1. Open **RStudio** or **R GUI**.
2. Set working directory to Milestone5/Shiny_App/.
3. Run app.R.
4. Alternatively, visit the hosted version on shinyapps.io if deployed.

3. Interacting with the Interface

Control	Function
Education Slider	Adjust average years of education.
Income Slider	Set average household income in Rand.
Water Access Slider	Define percentage of households with clean water access.
Predict Button	Generates a predicted health-risk category (Low, Moderate, High).

Output:

- Colour-coded bar chart for input factors.
- Text summary of predicted risk category.

4. Data and Ethics

- Uses anonymised aggregated data only.
- No personal records are processed.
- Intended for educational and validation use only.

5. Maintenance

To update models, replace model_logit.rds and model_tree.rds in the same directory and restart the app.

Version changes should be logged in model_governance_log.xlsx.