What Really Drives Cost of Living Across Countries?

Goal: To analyze global cost of living patterns and the factors influencing affordability across countries, and to evaluate how income, savings, and tax rates relate to **financial feasibility for relocation and foreign business planning.**

Project Requirements:
★ Manage large, messy data in R

ADAPT:
★ **Real-World Data Practice:** Used messy, multi-source global data for a relocation affordability analysis.

Skills:
★ Data Wrangling
★ Descriptive Statistics
★ EDA & Data Visualization
★ Interpretation & Reasoning

Methods:
★ Correlation matrices
★ Linear Regression models

Datasets from Kaggle:
★ Regional Cost of Living
★ Cost of Living Index by Cities
★ Cost of Living Index 2022

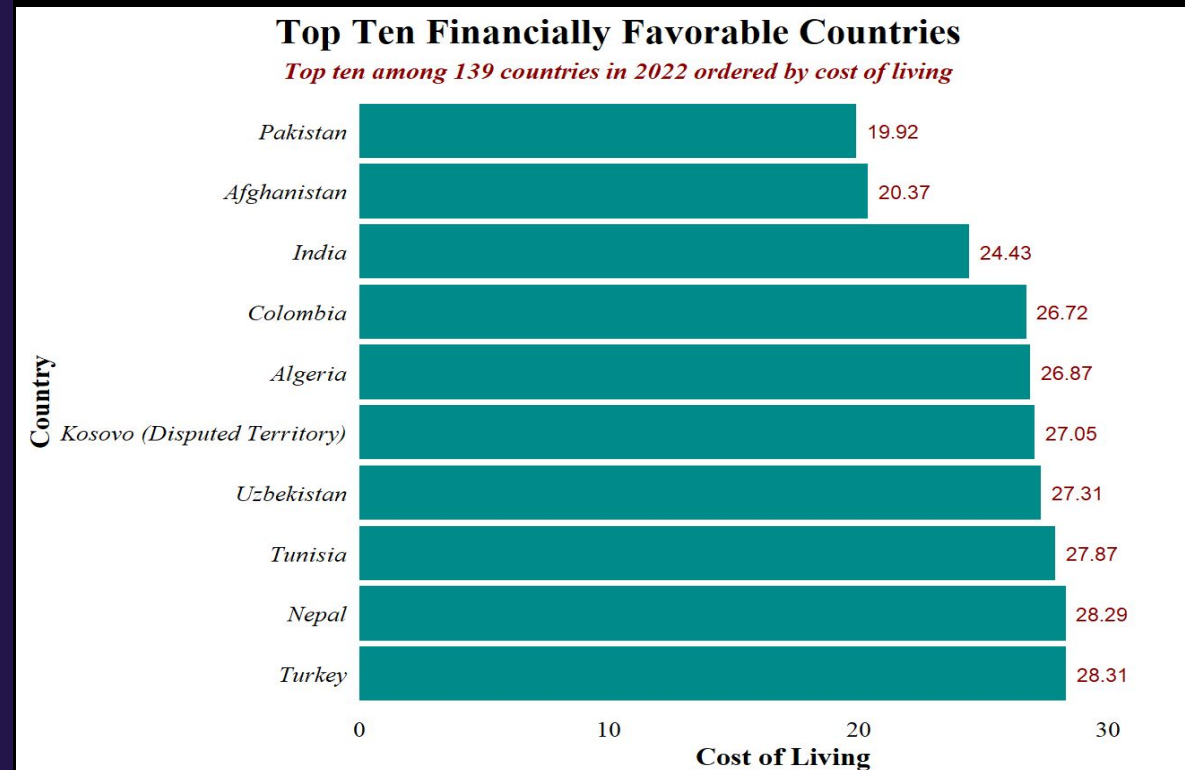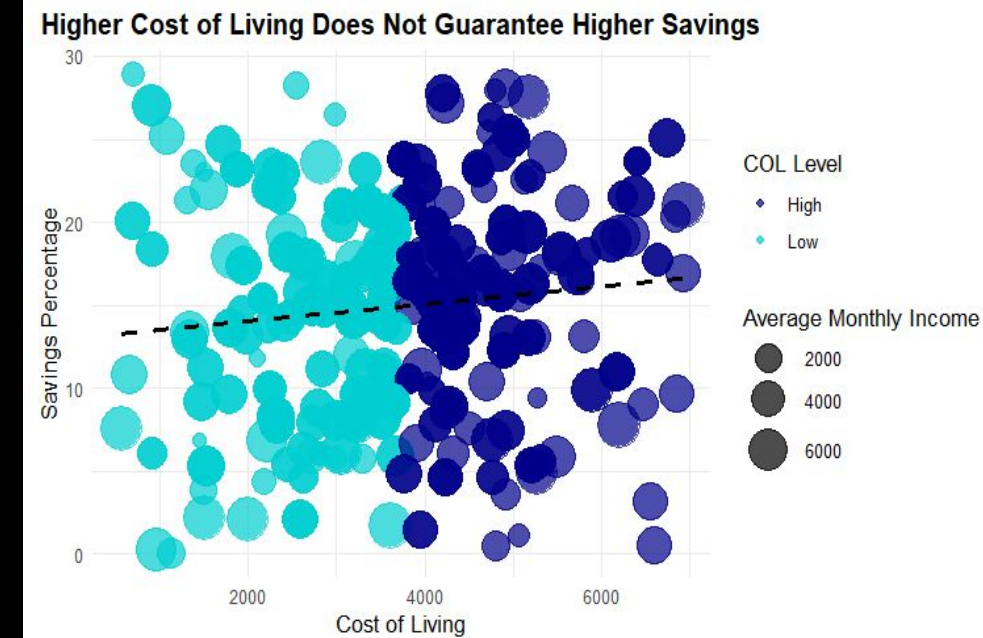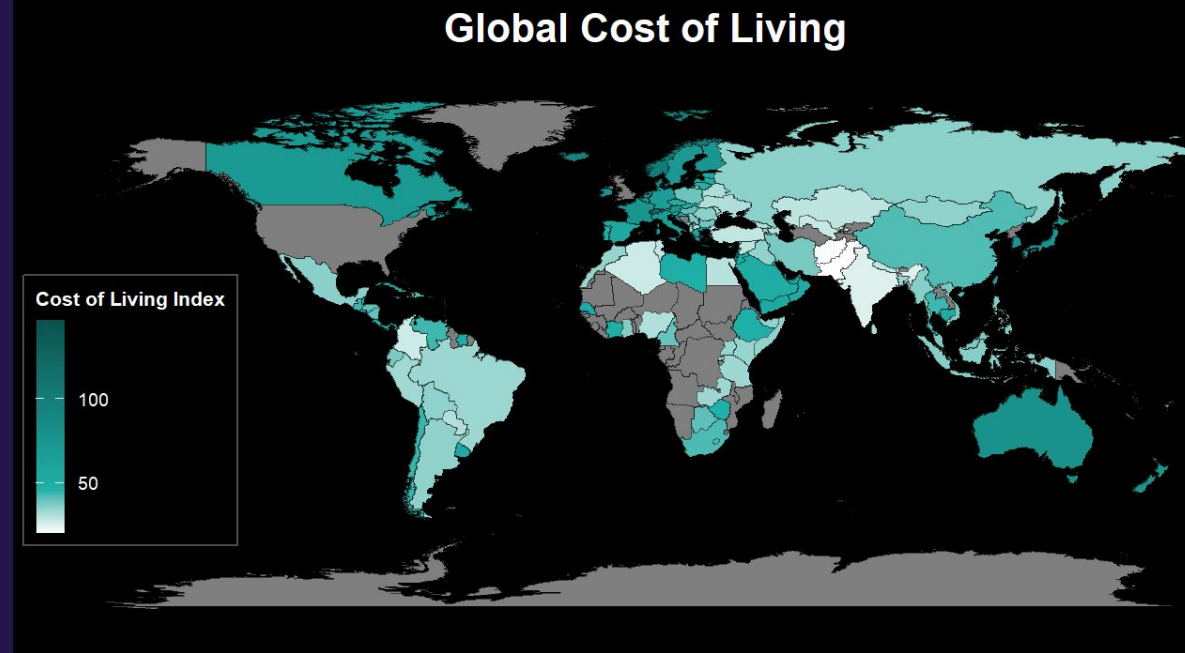cost_of_living   tax_rate   region

average_monthly_income   year

savings_percentage   country

education_cost_percentage

transportation_cost_percentage

healthcare_cost_percentage

housing_cost_percentage

Global Cost of Living

Cost of Living Index

100

50

Higher Cost of Living Does Not Guarantee Higher Savings

COL Level
● High
● Low

Average Monthly Income
2000
4000
6000

Top Ten Financially Favorable Countries

Top ten among 139 countries in 2022 ordered by cost of living

Country	Cost of Living
Pakistan	19.92
Afghanistan	20.37
India	24.43
Colombia	26.72
Algeria	26.87
Kosovo (Disputed Territory)	27.05
Uzbekistan	27.31
Tunisia	27.87
Nepal	28.29
Turkey	28.31

Key Insights

★ **Lowest cost of living in South Asia** with competitive affordability in Latin America, Sub-Saharan Africa, & East Asia.

★ Cost of living alone is a **weak predictor** of income, savings, & tax rates.

★ **Transportation cost** is the strongest of four contributors to overall cost of living.

★ **Regional** patterns are more informative than single-country comparisons.

Takeaways & Recommendations
★ **Evaluate cost of living within regional context** for accurate financial opportunity.
★ Income, savings, & tax rates **do not reliably track affordability** on their own.
★ Prioritize **transportation** infrastructure in relocation & international business planning.

Code, Analysis, & Report

Scan me!

https://github.com/SoumyaPannala/my-portfolio

Soumya Pannala | spannal@ncsu.edu | NC State Undergraduate | Major: Statistics (conc. In Data Science) | Minors: Accounting and Business Admin | DSA 202 (601) Data Visualization | Fall 2025