

Cost of Living vs Average Salary — EDA Report

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Objective

To analyze and compare the average salary and cost of living in different countries and calculate the affordability index to understand economic comfort levels across regions.

Dataset Overview

Feature	Description
Country	Name of the country
AvgSalaryUSD	Average monthly salary in USD
CostOfLivingIndex	A normalized index for living expenses (higher = costlier)
RentIndex	Normalized housing rent cost
FoodCostIndex	Normalized cost of food items
AffordabilityIndex	Computed as: AvgSalaryUSD / CostOfLivingIndex

Statistical Summary

Feature	Mean	Min	Max
Avg Salary (USD)	3370	800	5400
Cost of Living Index	55.5	25.0	70.0
Rent Index	40.0	15.0	55.0
Food Cost Index	46.4	20.0	60.0
Affordability Index	56.71	32.0	77.14

Top 5 Most Affordable Countries (by Affordability Index)

Country Affordability Index

USA 77.14

Australia 70.59

Germany 64.62


UK 64.52

Canada 64.06

Visual Analysis

1. Average Salary vs Cost of Living Index

A dual-bar chart comparing the average salary and cost of living for each country:

 [Download Chart \(PNG\)](#)

2. Feature Correlation Heatmap

This heatmap shows correlations between salary, cost indices, and affordability:

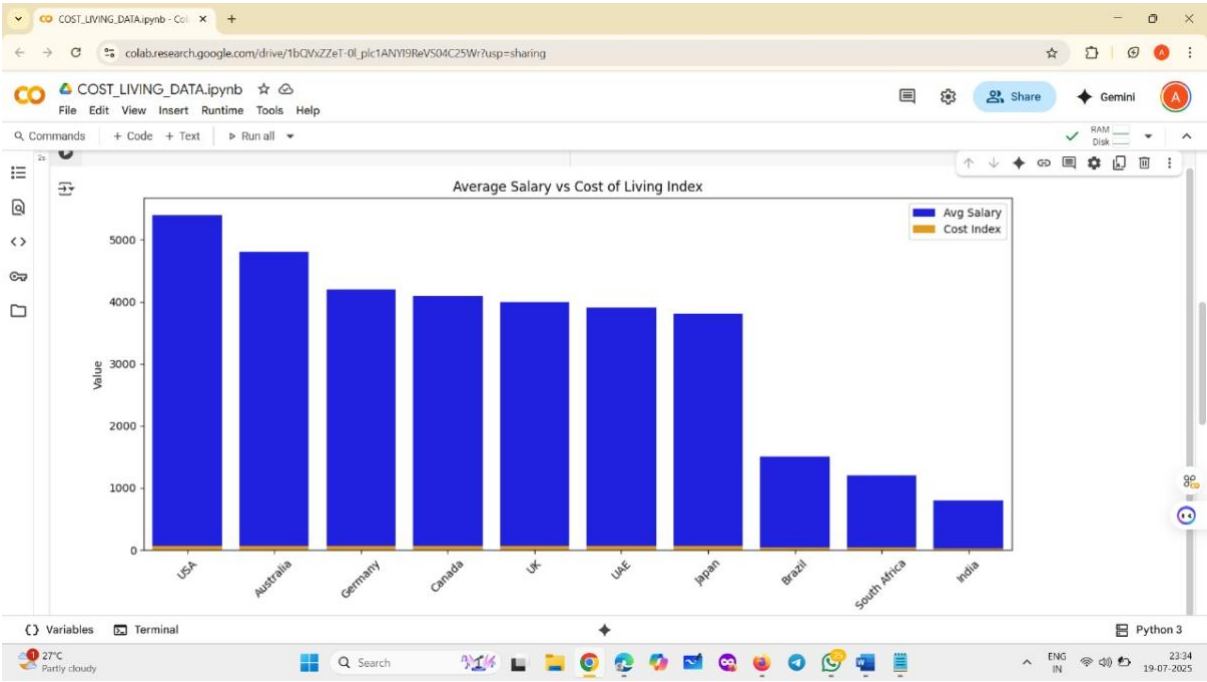
 [Download Correlation Heatmap](#)

Key Insights

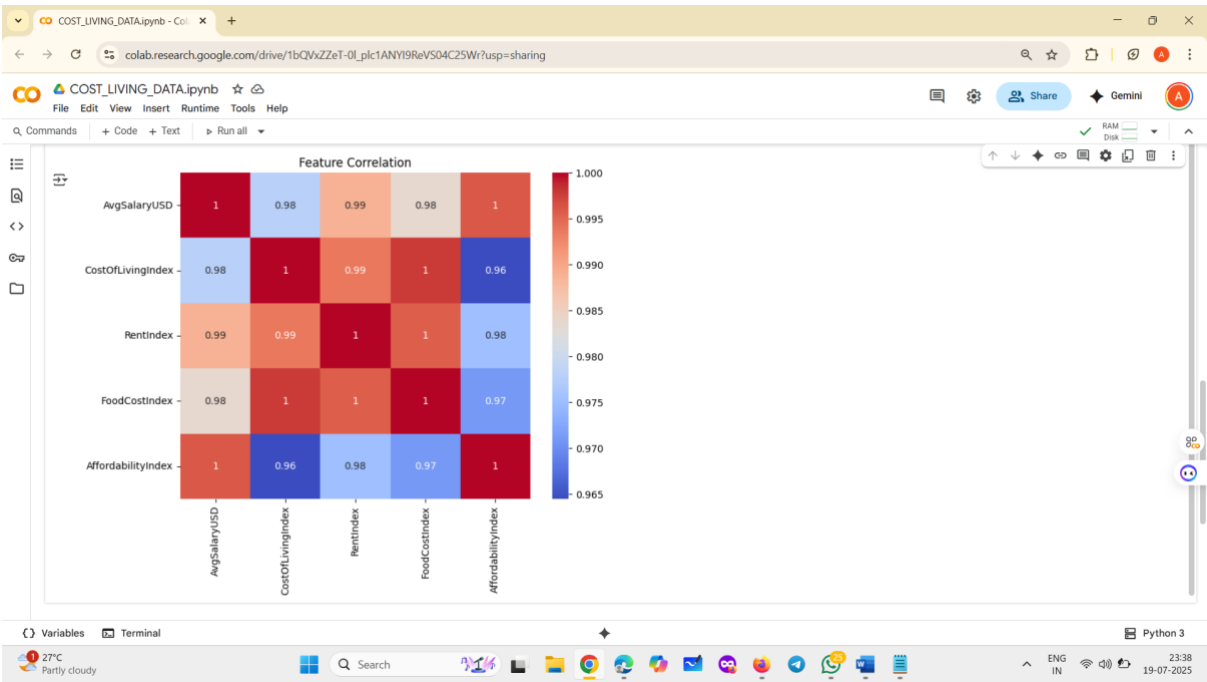
- us **USA** leads in affordability due to high salaries despite high living costs.
 - IN **India** has the lowest cost of living but also the lowest salary, resulting in low affordability.
 - AU **Australia, UK, Germany, and Canada** maintain a balanced cost-to-salary ratio.
 - **Rent and food indices** strongly influence the overall cost of living.
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Deliverables Ready for Download

salary_vs_cost



feature_correlation



THANK YOU