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INTRODUCTION

Objective: To analyze global COVID-19 data to uncover trends and disparities.

Dataset Overview: 15 columns (e.g., confirmed, deaths, recovered, 1_week_change).Focused on country and regional statistics.

| | 1 | | | | 1 | |
|----|-----------------|-----------|--------|-----------|--------|-----|
| | Α | В | С | D | E | |
| 1 | Country/Region | Confirmed | Deaths | Recovered | Active | Nev |
| 2 | Afghanistan | 36263 | 1269 | 25198 | 9796 | |
| 3 | Albania | 4880 | 144 | 2745 | 1991 | |
| 4 | Algeria | 27973 | 1163 | 18837 | 7973 | |
| 5 | Andorra | 907 | 52 | 803 | 52 | |
| 6 | Angola | 950 | 41 | 242 | 667 | |
| 7 | Antigua and Bar | 86 | 3 | 65 | 18 | |
| 8 | Argentina | 167416 | 3059 | 72575 | 91782 | |
| 9 | Armenia | 37390 | 711 | 26665 | 10014 | |
| 10 | Australia | 15303 | 167 | 9311 | 5825 | |
| 11 | Austria | 20558 | 713 | 18246 | 1599 | |
| 12 | Azerbaijan | 30446 | 423 | 23242 | 6781 | |
| 13 | Bahamas | 382 | 11 | 91 | 280 | |
| 14 | Bahrain | 39482 | 141 | 36110 | 3231 | |
| 15 | Bangladesh | 226225 | 2965 | 125683 | 97577 | |
| 16 | Barbados | 110 | 7 | 94 | 9 | |
| 17 | Belarus | 67251 | 538 | 60492 | 6221 | |
| 18 | Belgium | 66428 | 9822 | 17452 | 39154 | |
| 19 | Belize | 48 | 2 | 26 | 20 | |
| 20 | Benin | 1770 | 35 | 1036 | 699 | |
| 21 | Phyton | 00 | 0 | 90 | 12 | |

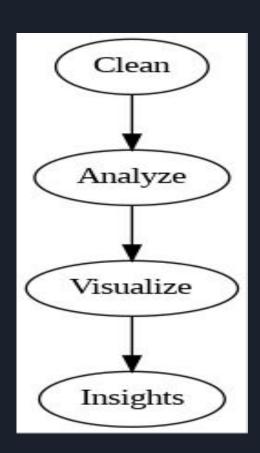
METHODOLOGY

Steps Taken:

Data cleaning: Handled missing values and standardized column names.

Exploratory Data Analysis: Univariate, correlation, and group analyses.

Visualizations: Used bar plots, scatter plots, and heatmaps.

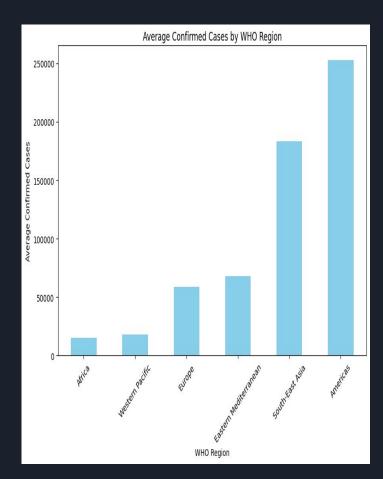


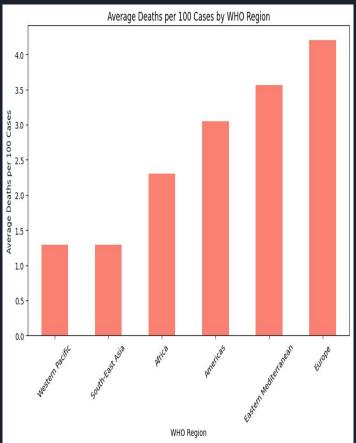
GLOBAL TREND PART 1

The Americas lead in confirmed cases globally.

Europe has the highest death rate per 100 cases.

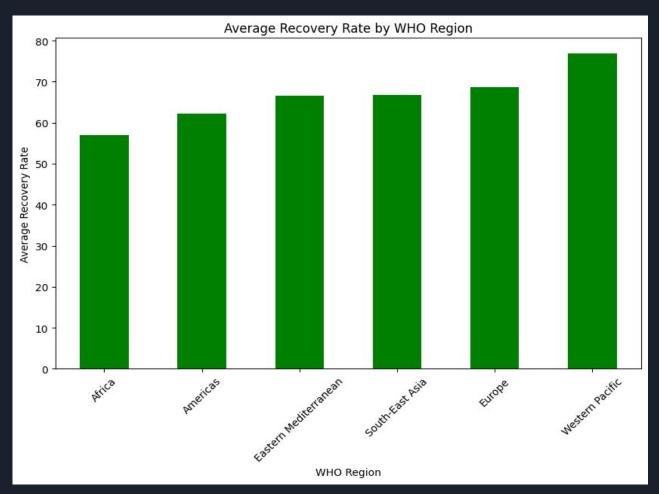
South-East Asia demonstrates the highest recovery rates.





GLOBAL TREND PART 2

Recovery rates by region highlight disparities in healthcare effectiveness.



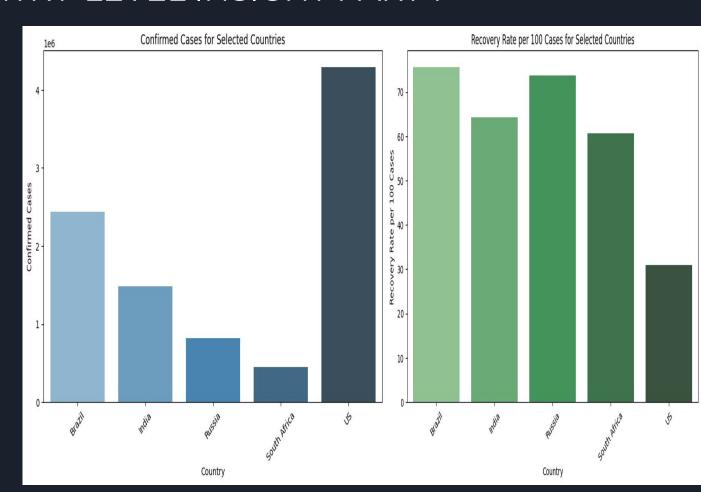
CONTRY-LEVEL INSIGHT PART 1

Top 5 countries for confirmed cases:

United States, India, and Brazil account for the majority of global cases.

Countries with exceptional recovery rates:

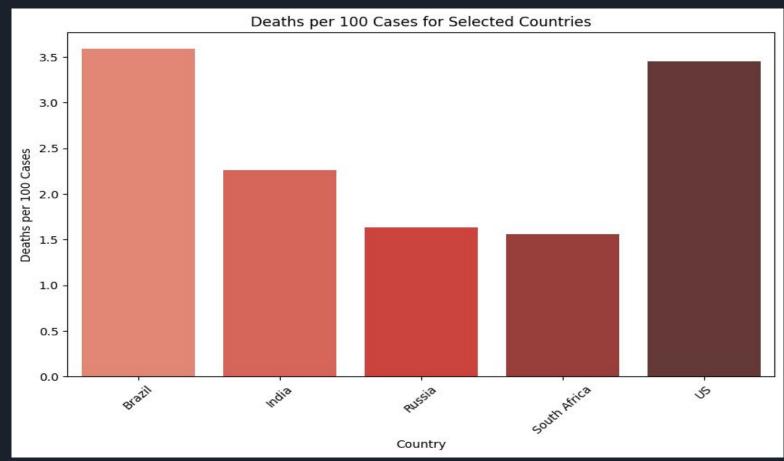
Russia and Brazil lead due to advanced healthcare systems.



COUNTRY-LEVEL INSIGHT PART 2

Countries with the highest deaths per 100 cases:

Brazil and US faced significant challenges due to high level of confirmed cases.

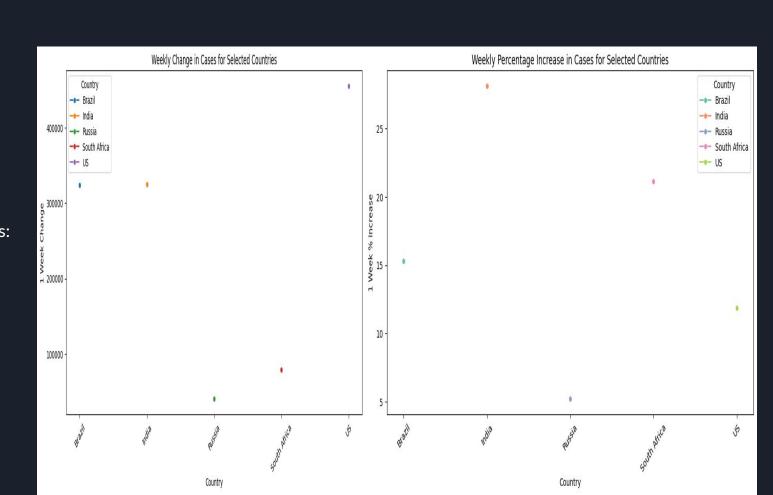


WEEKLY TRENDS

Countries with the largest weekly increases:

India and Brazil saw significant weekly surges.

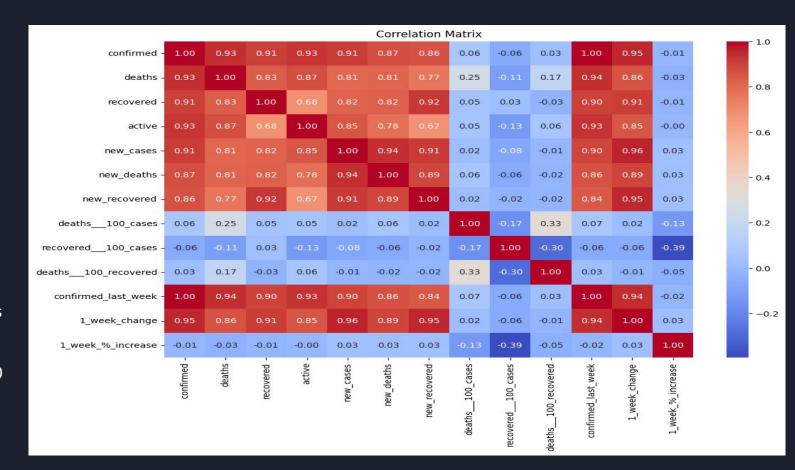
Smaller countries like Bahamas experienced sharp percentage increases.



CORRELATION

Confirmed cases strongly correlate with deaths (r > 0.8).

Recovery rates negatively correlate with deaths per 100 cases.



CONCLUSION AND RECOMMENDATIONS

Key Takeaways:

Americas have the highest confirmed cases, Europe the highest death rates.

South-East Asia demonstrates effective pandemic management.

Recommendations:

Strengthen healthcare systems in regions with high death rates.

Increase testing in under-reported regions.

Encourage regional collaboration to share effective strategies.

Thank you