



Topic: Water quality across different geographic regions

Group: 31

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Research Question

What regions are mostly at risk of experiencing unsafe water for daily use?

Motivation

- ❑ Unsafe water can damage a region's image, leading to declines in tourist activity
- ❑ Knowing which areas are most vulnerable gives policymakers the information they need to enhance restrictions.

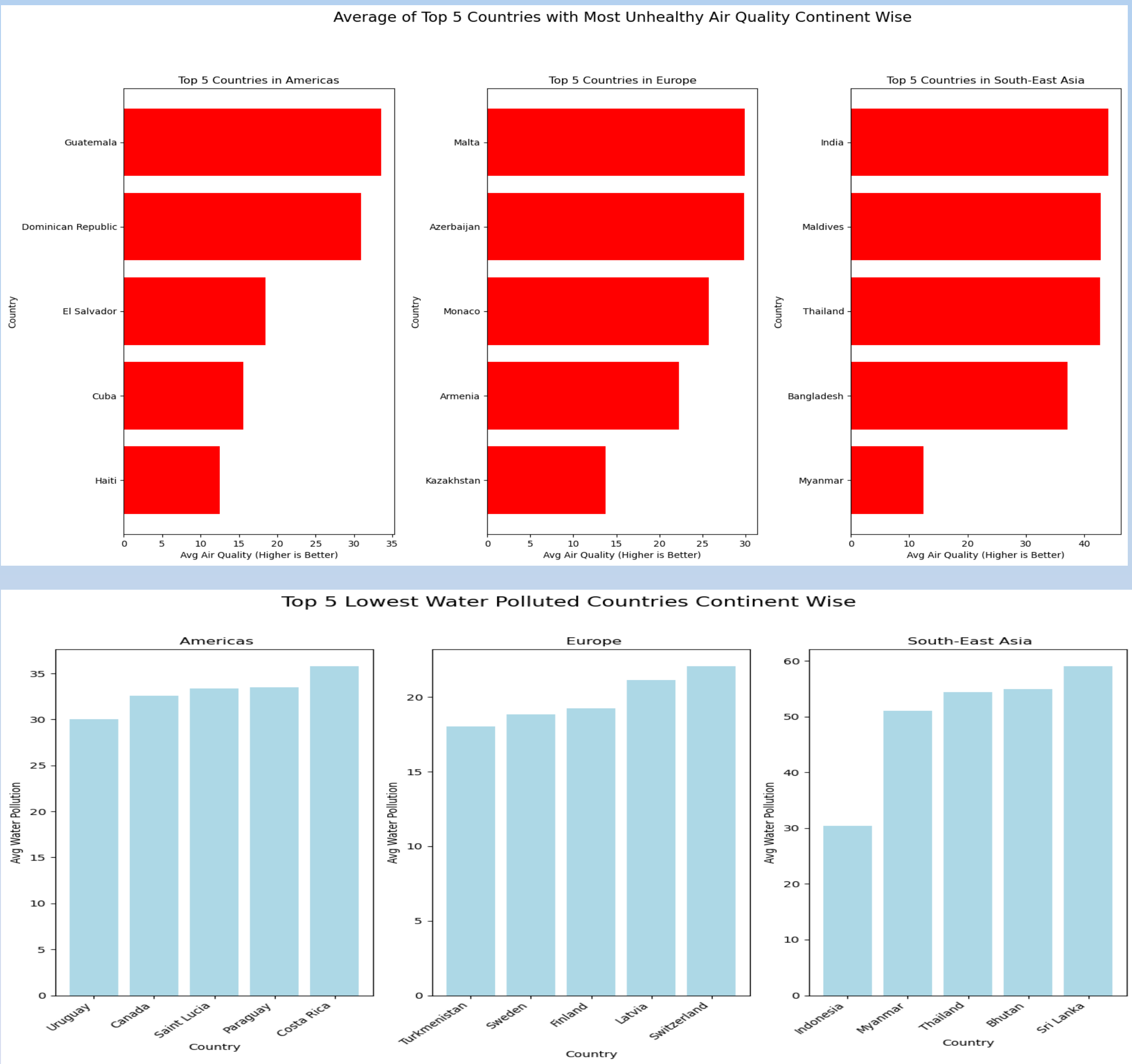
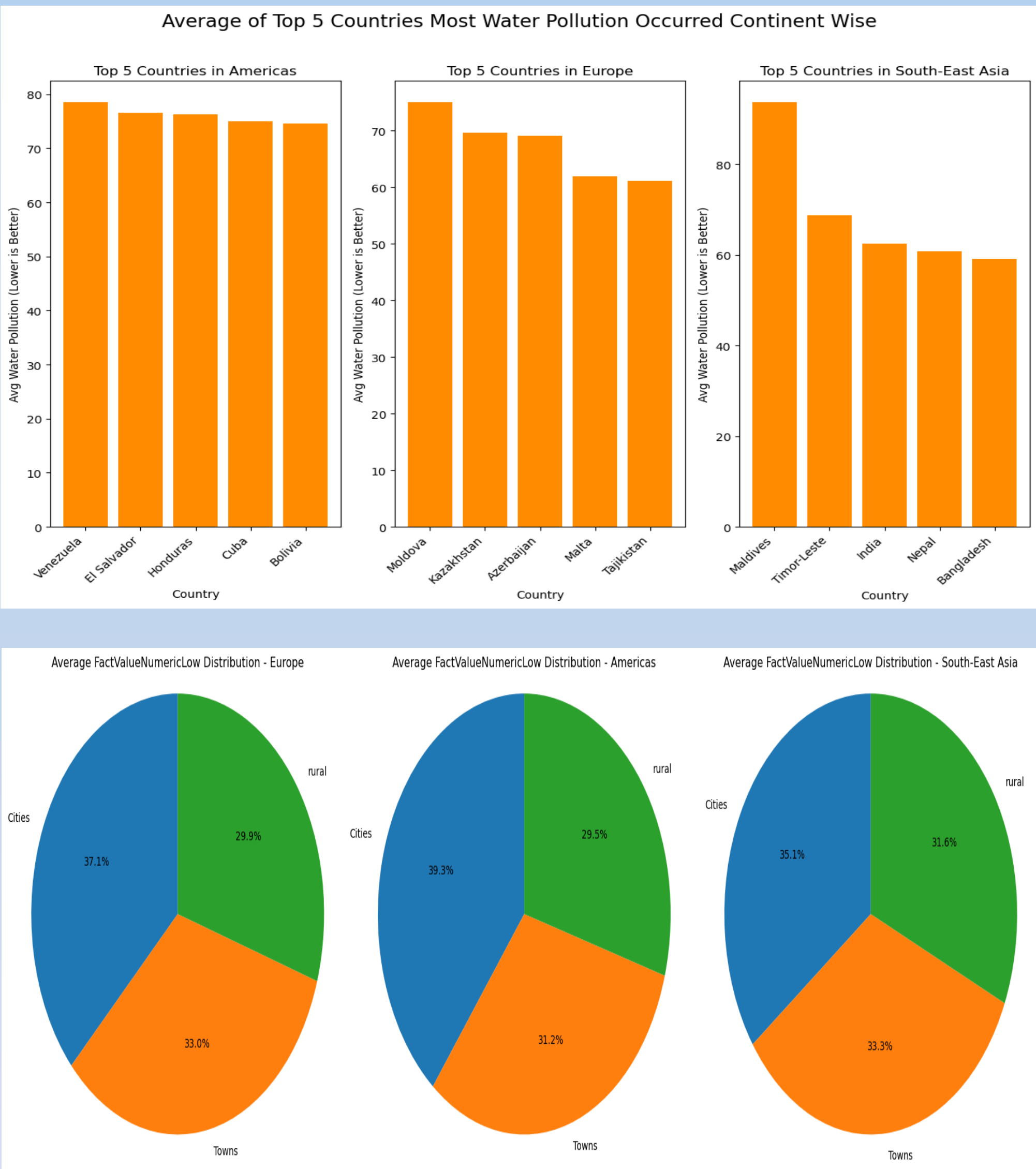
Data Collection

- ❑ Continent wise data collection Cities1.csv (2020), WHO_PM_Filtered.csv (2010-2019) from [Kaggle](#).
- ❑ Data processing steps: Normalization, data filtering (continent wise).
- ❑ Key variables: AirQuality, Water pollution, Parentlocation, FactValueNumericLow, Dim1.

Methods

- ❑ Continent-wise filtering and visualizing regional insights.
- ❑ Detecting pollution levels using an indicator.

Results



Conclusion

This research shows the most and least polluted nations and continents, as well as regional trends in air and water pollution. In addition to showcasing best practices for environmental management, it highlights important contributors by area type (urban, rural, and industrial).