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Analysis to Climate Change and Predicting Drowning Cities using Tableau

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Abstract: One of the most important worldwide issues of our day is climate change, which affects livelihoods, economics, and ecosystems all around the world. This study uses Tableau's powerful data visualization features to provide a thorough analysis of patterns and trends related to climate change. By combining many environmental datasets—such as temperature swings, carbon emissions, sea level rise, and biodiversity changes. Moreover, this research utilized a predictive model within Tableau to forecast potential future scenarios based on historical trends and statistical projections. These predictive models offer insights into potential climate trajectories and their implications for various geographic regions, aiding policymakers and stakeholders in informed decision-making and proactive climate adaptation strategies. The findings from this analysis underscore the urgency of addressing climate change, highlighting the acceleration of global warming, the alarming rise in greenhouse gas emissions, and the imminent threats posed to biodiversity and human habitats. Additionally, the interactive nature of Tableau visualizations enhances accessibility, enabling a wider audience to comprehend and engage with complex climate data effortlessly. The visual insights derived from this study serve as a valuable resource for policymakers, educators, and the public, fostering a deeper understanding of the multifaceted challenges posed by climate change and emphasizing the imperative need for concerted global action to mitigate its impacts

Keywords: Climate Change, Tableau, Data Visualization, Environmental Analysis, Predictive Modelling, Global Warming, Carbon Emissions, Biodiversity, Decision Support, Adaptation Strategies.



