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# Analysis on the Effects of COVID-19 Pandemic to the Tourist Arrival Trend in Caraga, Philippines through Linear Regression

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Abstract: This study delves into the tourist arrival trends in Caraga, Philippines before and during the COVID-19 pandemic. The trends were compared using Linear Regression Analysis. Data were sourced from the Regional Social and Economic Trends 2022 in Caraga from the Philippine Statistical Authority-Caraga. The analysis of tourist arrivals in the Caraga Region, Philippines, from 2008 to 2021, reveals the dual impact of pre-pandemic growth and the COVID-19 pandemic. Linear regression models applied to domestic, foreign, and total tourist arrivals highlight distinct trends. Before the pandemic, strong relationships between the year and tourist arrivals were evident, particularly in the total arrivals model, reflecting robust growth. However, the pandemic shifted this dynamic, weakening the link between the year and arrivals in all categories. Lower coefficients and diminished R-squared values underscored the pandemic's disruptive influence, indicating external factors played a greater role. This emphasizes Caraga's tourism industry's resilience and adaptability, necessitating flexible strategies to navigate the complex interplay of global events and local tourism trends.

Keywords: Tourism, Tourist Arrivals, Caraga Region, Linear Regression Analysis

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