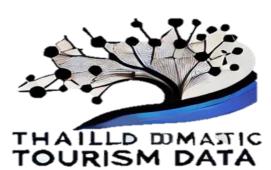
# Data Product of Thailand Domestic Tourism



### Objective

•To present key tourism-related data for decision-making by investors or other stakeholders.

•To develop a platform or tool, such as an easy-to-use dashboard, for analyzing tourism data.

#### Data Used:

Tourism statistics in Thailand from January 2019 to September 2024.

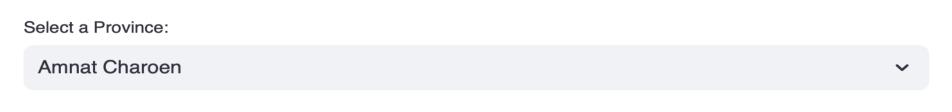
#### **Data Source:**

Ministry of Tourism and Sports, Thailand.

## **Descriptive for Tourism Data**

#### Overview

This page presents a comprehensive analysis of tourism performance in selected provinces in Thailand. It leverages advanced AI tools to identify key highlights and trends, supported by interactive data visualizations and boxplots to illustrate data distribution. Strategic recommendations are also provided to enhance tourism experiences, attract more visitors, and optimize the economic impact in these regions.



### **Descriptive Statistics for Amnat Charoen** $\ominus$

	count	mean	std	min	25%	50%	75%	max
Occupancy Rate	69	33.3913	16.3555	0.08	26.26	33.34	40.48	66.
Tourists in Occupied Rooms	69	5,434.913	2,423.4811	11	4,958	5,708	6,886	10,5
Total Tourists	69	18,099.9275	8,623.2335	11	16,696	19,418	22,436	41,7
Thai Tourists	69	17,777.5942	8,441.9721	11	16,056	19,041	21,816	40,9
Foreign Tourists	69	322.3333	291.5046	0	0	400	599	8
Net Profit (Million baht)	69	26.2536	15.0167	0.01	17.7	28.54	35.78	65.
Thai Net Profit (Million baht)	69	25.4626	14.4422	0.01	17.31	27.78	35.12	62.
Foreign Net Profit (Million baht)	69	0.791	0.9062	0	0	0.7	1.08	3.

Fig.1 Table Showing Descriptive Statistics for Selected Province

### **Boxplot Analysis**

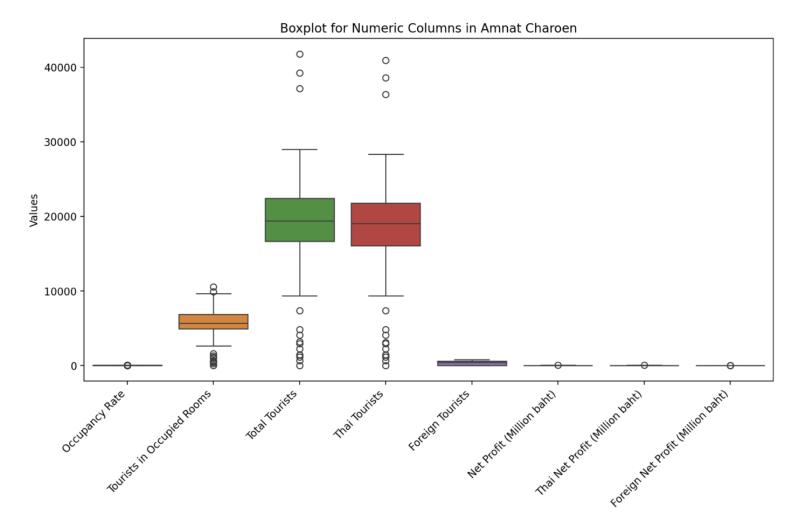
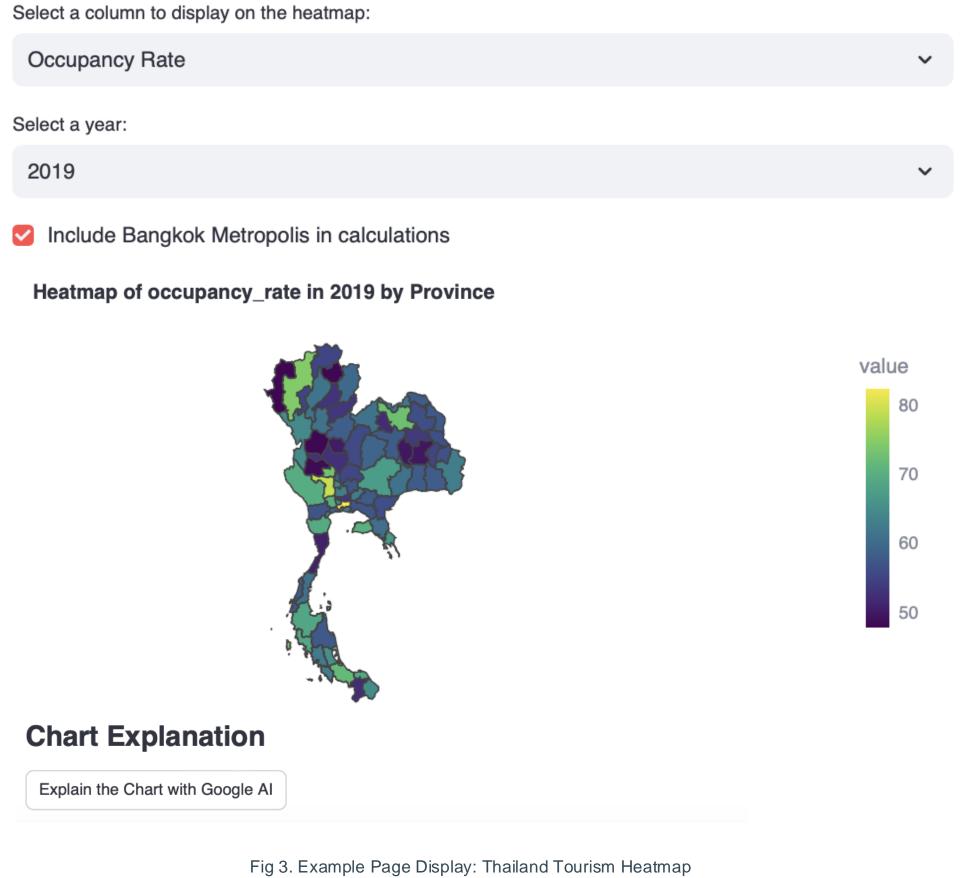


Fig 2.Boxplot for Numeric Columns in Selected Province

## **Thailand Tourism Heatmap**

#### Overview

This page provides an interactive heatmap visualization that showcases tourism performance across various provinces in Thailand. Users can explore tourism trends by selecting specific data columns and years, offering a customizable view of key insights.



## **Thailand Tourism Trends**

## **Trend Graphs: Amnat Charoen**

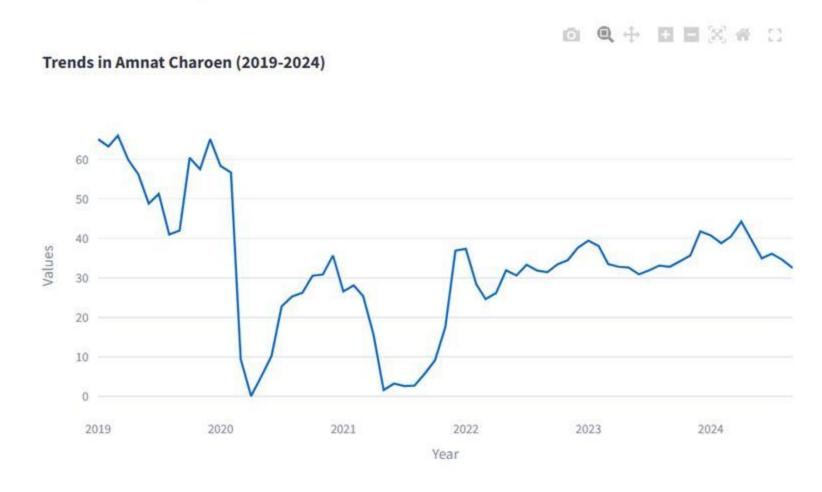


Fig 4. Trend Graphs of Selected Province

#### Overview

This chart is a comprehensive analysis of trends across various provinces in Thailand.

Users can select a province and a specific metric to explore monthly trends from 2019 to 2024.

The chart dynamically updates to reveal insights into occupancy rates, tourist numbers, and net profits, segmented by Thai and foreign tourists. Refine your selections using the sidebar to gain valuable and detailed insights.

## **Thailand Tourism Forecast**

#### **Overview**

This code is a Streamlit-based application designed for forecasting tourism revenue in Thailand, with support for both local (Thai) and foreign tourist data. It integrates two powerful tools for forecasting: Prophet, a time-series forecasting model, and GeminiAI, a generative AI that can provide additional insights and explanations.

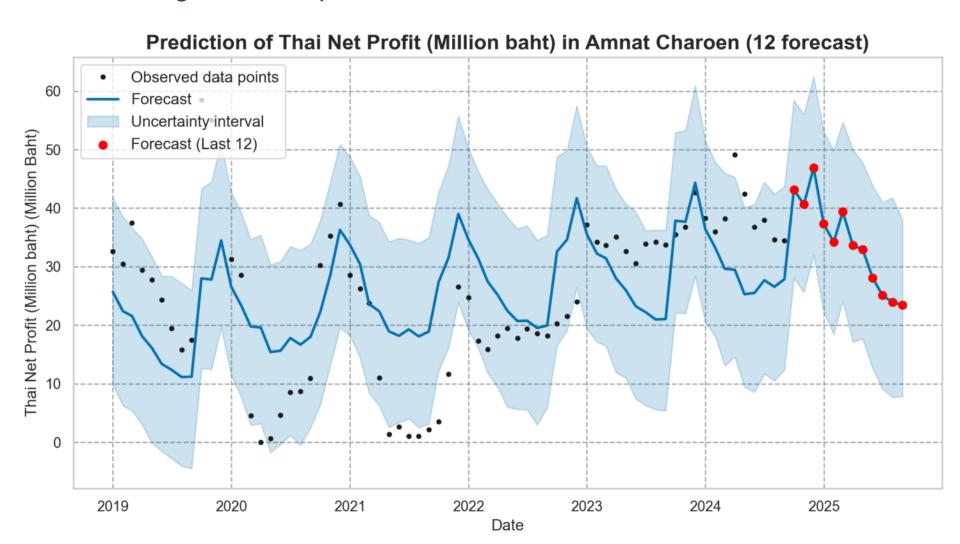


Fig 5. Prediction of Thai Net Profit (Million baht) in Selected Province (12 forecast)

### **Graph Explanation**

The graph displayed in the application is a time-series forecast visualization generated by the Prophet model. It provides insights into predicted values of the selected profit type over time for the chosen province.

#### References

Ministry of Tourism and Sports, Thailand. (2024). Tourism statistics in Thailand: January 2019 to September 2024. Retrieved [January 8, 2025], from [https://www.mots.go.th/mots\_en].

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