Adavi Demography Analysis Project

Project Description

For this project, I created an interactive dashboard to analyze and present the demographic data of the city of Adavi. The goal was to provide clear and actionable insights into the city's population, employment status, gender distribution, income by religion, tax by employment status, and the number of children by gender. The dashboard was designed to be user-friendly, with interactive elements that allow stakeholders to easily explore and understand the data.

Objectives and Approach

Population Overview

The dashboard begins with a clear, concise and summary section that displays the total number of people in the city. This provides a quick overview of the city's population.

Employment Status Breakdown

I then focused on visualizing the employment status of the city's residents. The dashboard shows the number of employed, unemployed, and self-employed individuals. This section helps stakeholders understand the economic landscape of Adavi.

Gender Distribution

To highlight the gender distribution within the city, I included visuals that show the number of males and females, along with their corresponding percentages. This allows for a quick comparison of gender ratios in Adavi.

Detailed Visuals

The dashboard also features several detailed visuals to provide deeper insights:

- Income by Religion: An appropriate chart was used to display income levels segmented by religion. This helps in understanding how income varies across different religious groups in Adavi.

- Tax by Employment Status: Another visual illustrates the tax contributions based on employment status. This is crucial for analyzing the economic contributions of different employment categories.

- Number of Children by Gender: A specific chart shows the number of children categorized by gender. This helps in understanding the demographic composition of the younger population in Adavi.

Interactive Slicer

To enhance the interactivity of the dashboard, I included a slicer for the region. This allows users to filter the data based on different regions within the city, providing a more granular view of the demographic data.

Tools and Techniques Used

Creating this dashboard required a good understanding of Pivot Tables, Charts, Text Boxes, and Slicers. I used these tools to organize, analyze, and present the data in a way that is both informative and visually appealing.

Impact and Outcomes

The Adavi Demography Analysis dashboard provides stakeholders with valuable insights into the city's demographics. By visualizing key metrics such as population, employment status, gender distribution, income by religion, tax by employment status, and the number of children by gender, the dashboard helps in making informed decisions and formulating strategies to address various socio-economic issues in Adavi. The interactive elements ensure that users can easily explore and understand the data, making the dashboard a powerful tool for demographic analysis.