Global Happiness Report Analysis

UNDERSTANDING THE IMPACT OF SOCIO-ECONOMIC FACTORS ON HAPPINESS

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INTRODUCTION

This report delves into the analysis of the happiness scores across 156 countries, employing a model that predicts happiness based on four key socioeconomic factors: GDP per capita, social support, healthy life expectancy, and perceptions of corruption. The purpose is to uncover insights that can guide policy makers in enhancing the well-being of populations. This analysis not only highlights significant contributing factors to happiness but also serves as a benchmark for further research and policy development.

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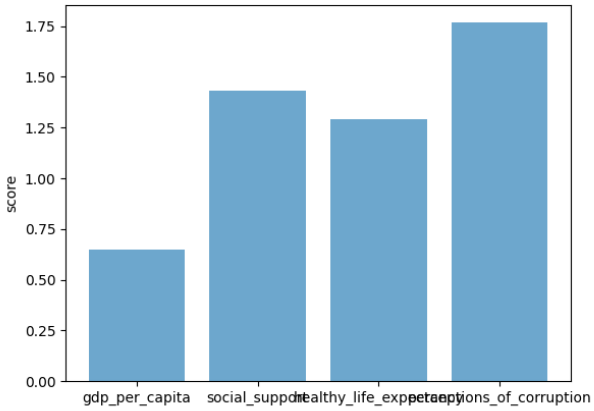


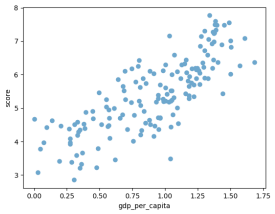
GDP per Capita: 0.650

Social Support: 1.432

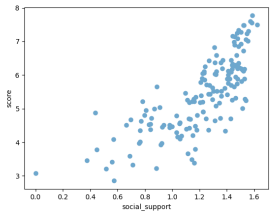
Healthy Life Expectancy: 1.291

Perceptions of Corruption: 1.767

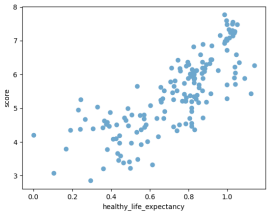
Visual Insights



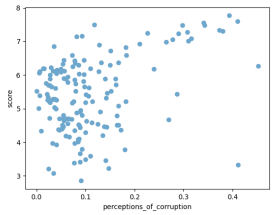
The bar chart illustrates the relative influence of each variable on happiness scores, highlighting that perceptions of corruption have the highest score impact, followed by social support and healthy life expectancy.



The scatter plot for GDP per capita shows a positive trend, suggesting that higher GDP per capita generally corresponds to higher happiness scores.



The scatter plot for social support depicts a clearer upwards trend, reinforcing it as a strong predictor of higher happiness scores.



The scatter plot for healthy life expectancy displays moderately positive correlation, indicating that longer life expectancy can contribute to higher happiness.

Model Performance Indicators

- **R2 (Coefficient of Determination):** 0.722
- **MAE (Mean Absolute Error):** 0.405
- **MSE (Mean Squared Error):** 0.270
- **RMSE (Root Mean Squared Error):** 0.520

AI WARNING

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