Predicting the Future of GDP: A Data Science Approach to Forecasting Economic Growth

In this blog post, we explore how data science can be used to predict the economic future of a country.   
Using historical GDP data from the World Bank, we build a Linear Regression model to predict the GDP   
of the United States for 2025.

# The Dataset

The dataset used in this analysis comes from the World Bank and contains GDP values for various countries from 1960 to the present.   
For this project, we focused on the United States.

# Analysis

We started by performing Exploratory Data Analysis (EDA), visualizing the GDP trend for the United States.   
We found that the GDP has increased steadily over the years.

# Model

We used Linear Regression, a technique that is well-suited for predicting continuous values like GDP.   
After training the model on historical data, we tested it on a portion of the dataset.

# Results

Our model predicted the GDP of the United States for 2025 to be approximately $26.5 trillion. Below is a visualization   
of the Actual vs Predicted GDP:

Figure 1: Comparison of actual and predicted GDP for the United States.

# Conclusion

By using Linear Regression, we successfully predicted the GDP for 2025. This type of analysis can assist policymakers and economists   
in planning for future economic growth.

# Call to Action

If you are interested in learning more about economic predictions or want to apply this model to other countries,   
feel free to explore the code on my GitHub repository!