

PROJECT DOCUMENTATION

Empowering India:

Analysing The Evolution Of Union Budget Allocations For Sustainable Growth

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Abstract

This project analyzes the evolution of Union Budget allocations in India across multiple financial years. The focus is on identifying funding trends across key sectors such as infrastructure, healthcare, education, agriculture, defense, and renewable energy to evaluate their contribution to sustainable and inclusive growth.

1. Introduction

The Union Budget plays a significant role in determining India's economic priorities. By analyzing allocation patterns over the years, this project identifies shifts in fiscal strategy towards long-term development and sustainability.

2. Objectives

- To examine Union Budget allocation trends across financial years.
- To identify priority sectors receiving increased government funding.
- To evaluate sustainability-focused allocations.
- To visualize financial data for better interpretation.
- To derive insights that support policy understanding.

3. Literature Review

Previous studies highlight the importance of capital expenditure and social sector investments in promoting inclusive growth. Budget transparency and digital data analysis have improved policy evaluation in recent years.

4. Methodology

Budget data was collected from official government publications. Data cleaning and preprocessing were performed using Python libraries such as Pandas and NumPy. Exploratory Data Analysis (EDA) techniques were applied to compare year-wise allocations and sectoral growth trends. Visualization tools like Matplotlib were used to generate charts and graphs.

5. System Architecture

The system consists of the following modules: Data Collection Module, Data Processing Module, Analysis Module, Visualization Module, and Reporting Module. Each module contributes to generating meaningful insights from raw financial data.

6. Technologies Used

- Python (Pandas, NumPy)
- Matplotlib for Data Visualization
- Jupyter Notebook
- Git & GitHub
- Microsoft Excel

7. Results and Key Findings

The analysis reveals increased capital expenditure in infrastructure development, enhanced allocations for renewable energy, growing investments in digital transformation, and consistent funding for healthcare and education sectors.

8. Conclusion

The Union Budget demonstrates a strategic shift towards sustainable and inclusive growth. Data-driven evaluation provides valuable insights into fiscal priorities and long-term development planning.

9. Future Scope

Future enhancements may include predictive analytics, integration of interactive dashboards, and comparative international budget analysis.