

Union Budget Analysis Report

1. Preprocessing Steps

- 1 Collected Union Budget dataset containing department-wise, category-wise, and scheme-wise financial allocations.
- 2 Loaded dataset into Tableau for visualization and analysis.
- 3 Checked dataset structure including rows, columns, and data types to ensure data quality.
- 4 Removed unnecessary fields and validated financial metrics for accuracy.
- 5 Created calculated fields and aggregated measures for yearly comparison.
- 6 Applied filters and sets (Top N analysis) for dynamic interaction.
- 7 Ensured performance optimization by verifying data volume and rendering efficiency.

2. Business Questions with Visualization

- 1 What is the total allocation across different categories? (Category-wise bar chart visualization)
- 2 Which departments receive the highest budget allocation? (Top departments bubble chart)
- 3 How do budget estimates compare across different years? (Comparative dual-axis charts)
- 4 What are the top funded schemes? (Treemap visualization)
- 5 What is the overall distribution of budget allocation? (Heatmap / Highlight table)
- 6 How can users explore insights interactively? (Tableau Story with filters and dashboards)

Visualization	Purpose
Category-wise Bar Chart	Compare budget allocation across categories
Department Bubble Chart	Identify top funded departments
Dual Axis Comparison Chart	Year-wise budget comparison
Treemap	Top funded schemes overview
Highlight Table	Budget distribution heatmap