

INDIAN UNION BUDGET ANALYSIS

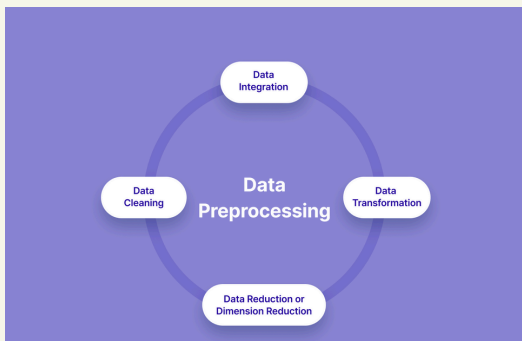
PROBLEM STATEMENT

To analyse the budget of the Indian Union based on structured and unstructured data available on the Internet and to provide insights into fund allocation contrasted with actual progress and to provide predictions for various sectors

DATA SOURCE

Collected data: Ministry and State fund allocations, State GDP from Kaggle and structured sources.

DATA PREPROCESSING



FEATURE SELECTION

- PEARSON CORRELATION
- LINEAR REGRESSION
- CORRELATION COEFFICIENT
- FEATURE RELEVANCE

MODEL REPORT

2024-25	1858158.52
2023-24	1689719.17
2022-23	1538779.45
2021-22	1386273.30
2020-21 Total (₹ Crores)	1168937.34
2019-20 Total (₹ Crores)	1172769.50
2018-19 Total (₹ Crores)	894706.82
2017-18 Total	740168.99
2016-17	723460.84
2015-16	679960.98
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(₹ Crores)	2017-18 Total
58080.00	51026.00
21518.38	12461.20
2130.80	1428.65
73946.57	70578.45
6602.86	2702.00

	2022-23	2021-22
0	132513.62	131531.19
1	22723.58	18264.89
2	3050.00	2970.30
3	107715.38	80714.94
4	10667.00	3224.67

PREDICTION MODEL(LINEAR REGRESSION)

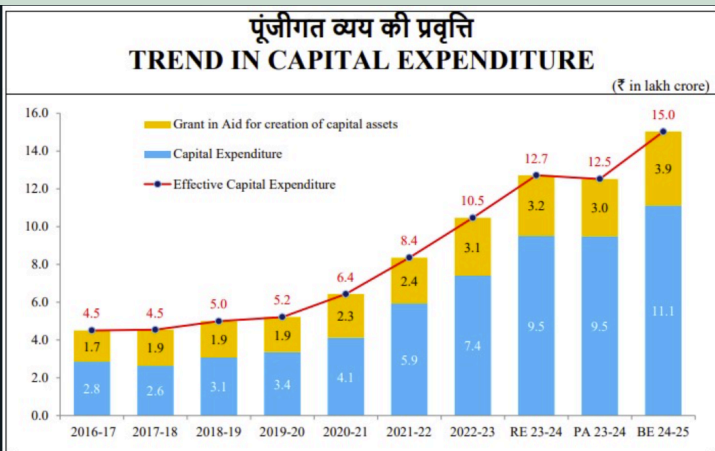
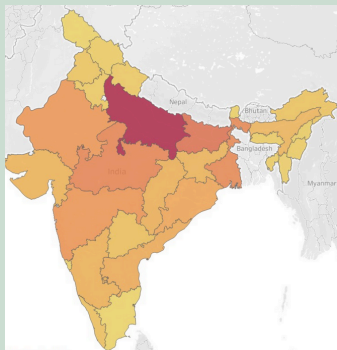
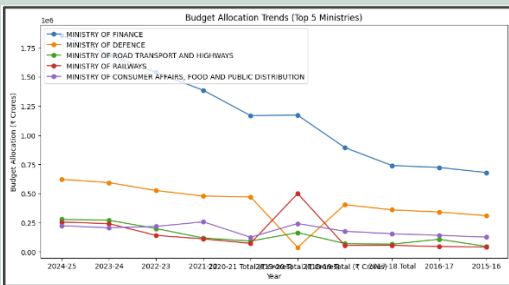
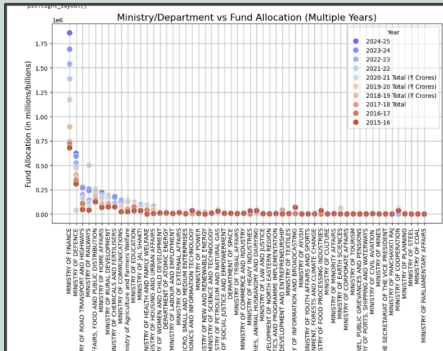
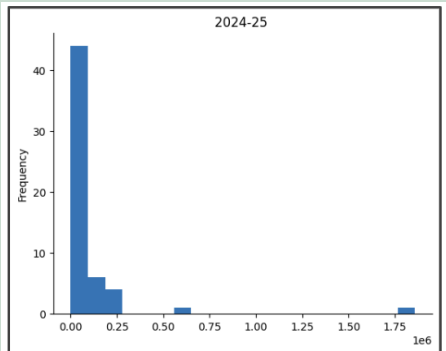
- Linear regression models relationships between variables to predict continuous outcomes accurately.
- Linear regression is one of the most widely used statistical methods due to its simplicity and interpretability, making it foundational in predictive modeling.

MODEL EVALUATION

- CONFUSION MATRIX: EVALUATES CLASSIFICATION MODEL ACCURACY.



DATA VISULIZATION



VARIABLES

CATEGORICAL VARIABLES

- MINISTRY NAMES
- STATE NAMES
- BUDGET CATEGORIES (E.G., EDUCATION, HEALTH)
- FUND ALLOCATION TYPES (E.G., CENTRAL, STATE)

CONTINUOUS VARIABLES

- AMOUNT
- GDP
- TRENDS
- GROW

CONCLUSION

STRATEGIC BUDGET ALLOCATION ENHANCES ECONOMIC DEVELOPMENT AND STABILITY

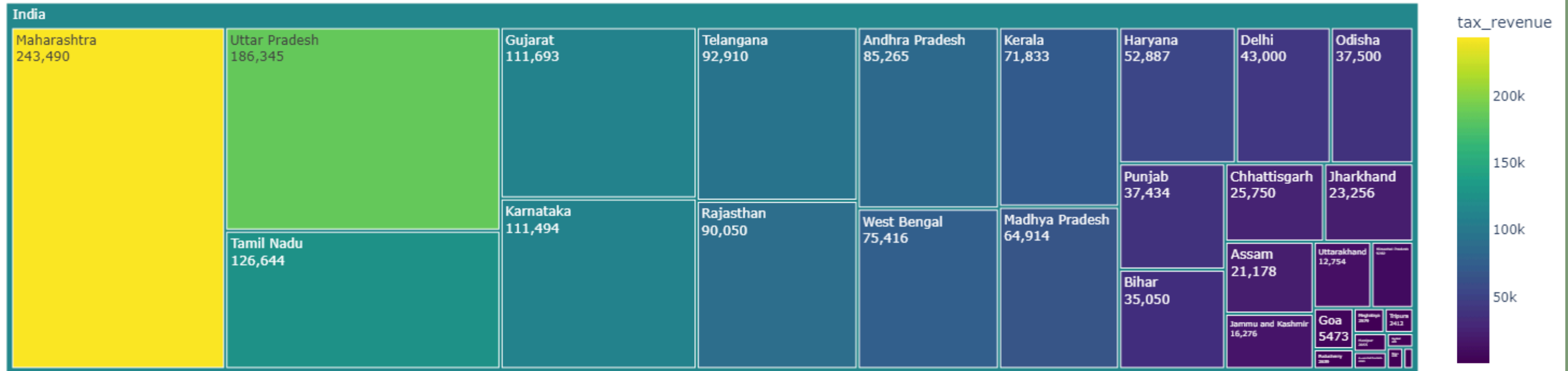
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- [INDIANBUDGET.GOV](https://indianbudget.gov)
- [KAGGLE.COM](https://kaggle.com)

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Tax Revenue of Indian States and Union Territories (2021)



Per Capita Income of Indian States and UTs (2022)



