

CivicDataLab

Data | Tech | Design | Social Science

What We Offer



Data Strategy



Data Platform

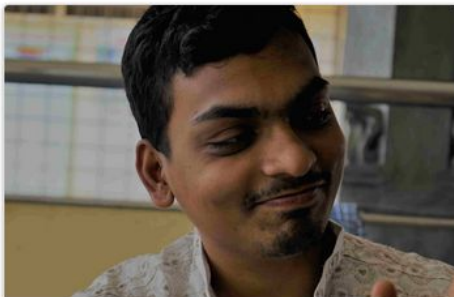


Data Science

The Team



Apoorv Anand



Deepthi Chand



Gaurav Godhwani



Shreya Agarwal



Swati Jaiswal



Vivek Shrinivasan

Some of Our Focus Areas



Public
Finance



Judicial
Reforms



Education &
Languages



Urban
Planning

Case Study - 1

 Open Budgets India
BETA

Making India's Budgets
Open, Usable & Easy to
Comprehend



Image Source: <https://pixabay.com/en/india-rupee-occupation-3887566/>

ವಿವರಗಳು Particulars	ಲೆಕ್ಕಗಳು Accounts 2014-15	ಆದಾಯ Est 2015
03. ಹಣಕಾಸು ಮತ್ತು ಲೆಕ್ಕ ಪತ್ರಗಳು <u>Finance Accounts &</u> <u>Government Grants</u>		
ಪಾಲಿ ಲೆಕ್ಕಗಳು/ ಹಣಕಾಸು ಲೆಕ್ಕಗಳು CA/Liabilities		
ಕೇವಲಕೊಡ Deposits	R0006	
ಕುಂದಡಿ EMD		..
ನೌಕರರಾದ ಪಾಲಿ ಮತ್ತು ಮುಂಗಡಗಳ ವಸೂಲಾತಿ Recovery of Loans & Advances from Employees	R0017	
ಕಂಪ್ಯೂಟರ್ ಮತ್ತು ಇತರ ಮುಂಗಡದ ವಸೂಲಾತಿ Recovery of Computer Advances & Other Advances	R0019	..
ಹಬ್ಬದ ಮುಂಗಡ ವಸೂಲಾತಿ Recovery of Festival Advance	R0020	..

DEMAND NO. 2

Department of Agricultural Research and Education

A. The Budget allocations, net of recoveries, are given below:

		Actual 2014-2015			Budget 2015-2016			Revised 2015-2016			Budget 2016-2017		
Major Head		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
Revenue		2456.82	2383.19	4840.01	3691.00	2629.00	6320.00	3000.00	2586.00	5586.00	3700.00	2920.00	6620.00
Capital		...	...	...	...	...	...	...	...	...	...	...	...
Total		2456.82	2383.19	4840.01	3691.00	2629.00	6320.00	3000.00	2586.00	5586.00	3700.00	2920.00	6620.00
BE 2016-2017													
1. Secretariat - Economic Services	3451	...	...	...	...	...	...	...	...	...	...	13.36	13.36
2. Natural Resource Management & Climate Resilient Agriculture													
2.01 Natural Resource Management Institutes including Agro-Forestry Research	2415	...	...	...	...	...	...	...	...	...	220.00	406.37	626.37
	2552	...	...	...	...	...	...	...	...	...	40.00	...	40.00
	Total	...	...	...	...	...	...	...	...	...	260.00	406.37	666.37
2.02 Climate Resilient Agriculture Initiative	2415	...	...	...	...	...	...	...	...	...	103.00	...	103.00
	2552	...	...	...	...	...	...	...	...	...	7.00	...	7.00
	Total	...	...	...	...	...	...	...	...	...	110.00	...	110.00
Total- Natural Resource Management & Climate Resilient Agriculture		...	...	...	...	...	...	...	...	...	370.00	406.37	776.37
3. Crop Sciences													
3.01 Crop Science	2415	...	...	...	...	...	...	...	...	...	506.00	865.48	1371.48
	2552	...	...	...	...	...	...	...	...	...	14.00	...	14.00
	Total	...	...	...	...	...	...	...	...	...	520.00	865.48	1385.48

ಕಂಪನಿ - 1 ಉಪವರ್ಗದ ಕಂಪನಿ : 03			2020 C
ಕ್ರಮ ಸಂಖ್ಯೆ	ವಿವರಣೆ	Heads of Account, Dem No and Share Code	ಲೆಕ್ಕ
		1	
01	ವಸತಿ ಸ್ಥಾಪನೆ	Collection Establishment	
002	ಕೆಲಸ - ಪರಿಣಾಮ	Pay-Officers	
003	ಕೆಲಸ - ಸ್ಥಾಪನೆ	Pay-Staff	
01	ಮೊಟ್ಟ ಮೊಟ್ಟ	Dearness Allowance	
014	ವಸತಿ ಲೆಕ್ಕ	Other Allowance	
020	ವೈದ್ಯಕೀಯ ಲೆಕ್ಕ	Medical Allowance	
021	ವೈದ್ಯಕೀಯ ಲೆಕ್ಕ	Reimbursement of Medical Expenses	
041	ಪ್ರಯಾಣ ಲೆಕ್ಕ	Travel Expenses	
051	ಸಾಮಾನ್ಯ ಲೆಕ್ಕ	General Expenses	
052	ಸಾಮಾನ್ಯ ಲೆಕ್ಕ	Telephone Charges	
195	ಸಾಮಾನ್ಯ ಲೆಕ್ಕ	Transport Expenses	
	ಒಟ್ಟು	Total 01	V
		[03]	
04	2020-09-100-00-01	Waiver of Tax and Interest Dues	
	ಕೆಲಸ ಮಾಡುವ ಸಾಮಾನ್ಯ ಲೆಕ್ಕ		
103	ಸಾಮಾನ್ಯ ಲೆಕ್ಕ - ಸಾಮಾನ್ಯ	Grants-in-Aid-General	
	ಒಟ್ಟು	Total 04	V
		Total 105	V
108	ಸಾಮಾನ್ಯ ಲೆಕ್ಕ - ಮರಣ ಲೆಕ್ಕ	Interest on Refunds	
	2020-09-100-00-01	[03]	
01	ಸಾಮಾನ್ಯ ಲೆಕ್ಕ - ಮರಣ ಲೆಕ್ಕ	Interest on Refunds	

Writing Algorithms to generate Open Budget Data

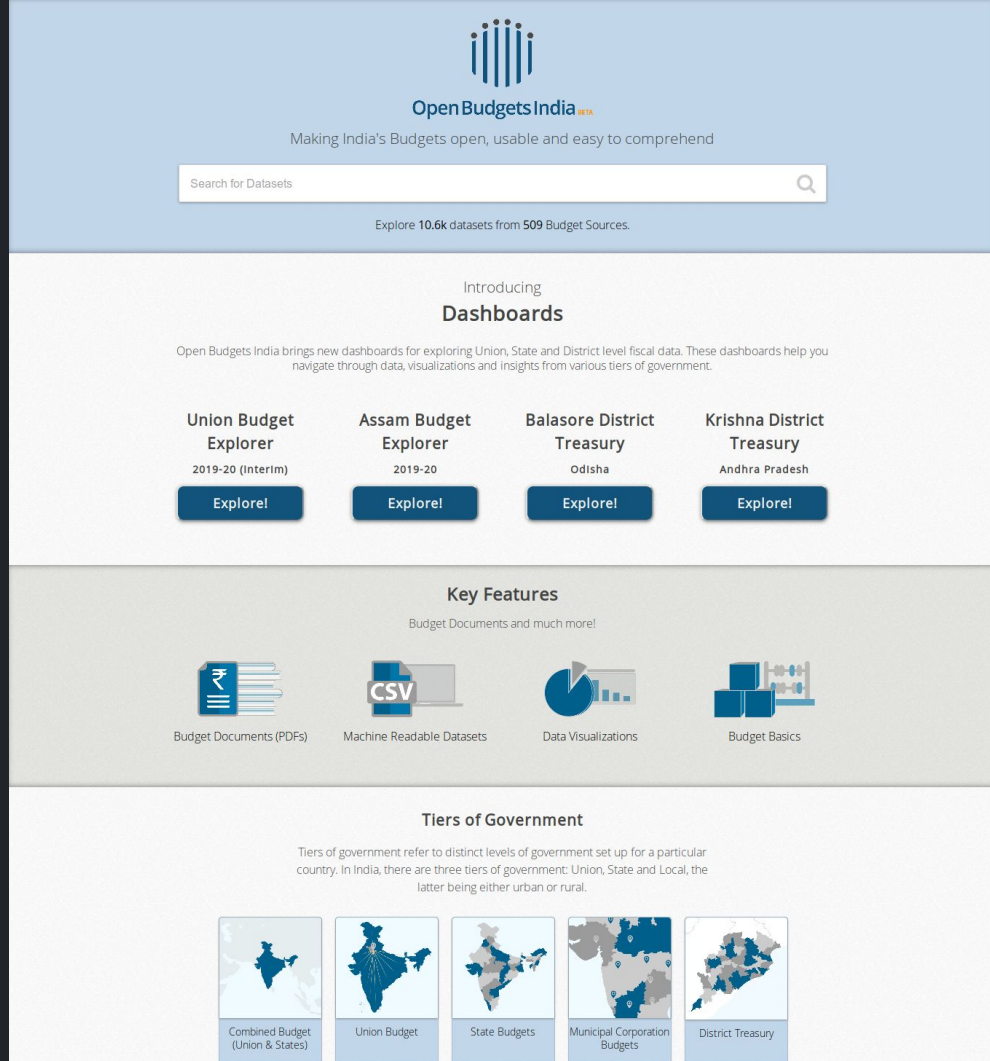
Budget Code	Particulars (Rs. in Lakhs)	Voted/ Charged	2014-15 Accounts Plan	2014-15 Accounts Non-Plan
2210-01-110	Hospitals & Dispensaries	Voted	23114.16	38086.05
2210-01-110-1	Hospitals Attached to Teaching Institutions	Voted	18635.22	29875.05
2210-01-110-1-13	Buildings	Voted	18.3	115.97
2210-01-110-1-13-147	Land & Buildings		14	115.97
2210-01-110-1-13-422	Schedule Caste Sub Plan		3	...
2210-01-110-1-13-423	Tribal Sub Plan		1.3	...
2210-01-110-1-17	Buildings (for Drugs Control Dept.)	Voted	65.96	...
2210-01-110-1-17-147	Land & Buildings		65.96	...
2210-01-110-1-18	College Hospitals	Voted	427.63	6437.3
2210-01-110-1-18-002	Pay-Officers		49.74	500.39
2210-01-110-1-18-003	Pay-Staff		234.08	2338.99
2210-01-110-1-18-004	Interim Relief		...	...
2210-01-110-1-18-011	Dearness Allowance		68.83	710.8

```
}},  
"records": [{  
  "Index": null,  
  "Scheme": "",  
  "Actual 2015-2016 Total": "15333.93",  
  "Budget 2017-2018 Revenue": "52575.57",  
  "Budget 2016-2017 Capital": "30.86",  
  "Actual 2015-2016 Revenue": "15300.75",  
  "Revised 2016-2017 Revenue": "48779.38",  
  "Actual 2015-2016 Capital": "33.18",  
  "Budget 2017-2018 Total": "52655.00",  
  "Revised 2016-2017 Capital": "61.12",  
  "Budget 2016-2017 Revenue": "35952.83",  
  "Revised 2016-2017 Total": "48840.50",  
  "Budget 2016-2017 Total": "35983.69",  
  "_id": 1,  
  "Type": "Gross",  
  "Budget 2017-2018 Capital": "79.43"
```

Building a community driven Open Budget Data Platform covering 10,500+ Datasets

URL:

<https://openbudgetsindia.org/>



The screenshot displays the Open Budgets India website. At the top, the logo consists of vertical bars of varying heights, followed by the text "Open Budgets India" and the tagline "Making India's Budgets open, usable and easy to comprehend". A search bar labeled "Search for Datasets" is positioned below the tagline, with a note indicating "Explore 10.6k datasets from 509 Budget Sources." The main content area is titled "Introducing Dashboards" and describes the platform's new dashboards for exploring Union, State, and District level fiscal data. It features four dashboard tiles: "Union Budget Explorer 2019-20 (Interim)", "Assam Budget Explorer 2019-20", "Balasore District Treasury Odisha", and "Krishna District Treasury Andhra Pradesh", each with an "Explore!" button. Below this is a "Key Features" section with icons for "Budget Documents (PDFs)", "Machine Readable Datasets", "Data Visualizations", and "Budget Basics". The bottom section, "Tiers of Government", explains the levels of government (Union, State, Local) and includes five map-based tiles for "Combined Budget (Union & States)", "Union Budget", "State Budgets", "Municipal Corporation Budgets", and "District Treasury".

Open Budgets India

Making India's Budgets open, usable and easy to comprehend

Search for Datasets

Explore 10.6k datasets from 509 Budget Sources.

Introducing
Dashboards

Open Budgets India brings new dashboards for exploring Union, State and District level fiscal data. These dashboards help you navigate through data, visualizations and insights from various tiers of government.

Union Budget Explorer
2019-20 (Interim)
Explore!

Assam Budget Explorer
2019-20
Explore!

Balasore District Treasury
Odisha
Explore!

Krishna District Treasury
Andhra Pradesh
Explore!

Key Features

Budget Documents and much more!

Budget Documents (PDFs)

Machine Readable Datasets

Data Visualizations

Budget Basics

Tiers of Government

Tiers of government refer to distinct levels of government set up for a particular country. In India, there are three tiers of government: Union, State and Local, the latter being either urban or rural.

Combined Budget (Union & States)


Union Budget

State Budgets

Municipal Corporation Budgets

District Treasury

Simplifying Union Budget with Open Analytical Tools

 Union Budget Explorer BETA

Budget at a Glance

Expenditure

Receipts ▾

Schemes

Total Budgetary Expenditure

₹ 2784200 Cr. **14.00%**

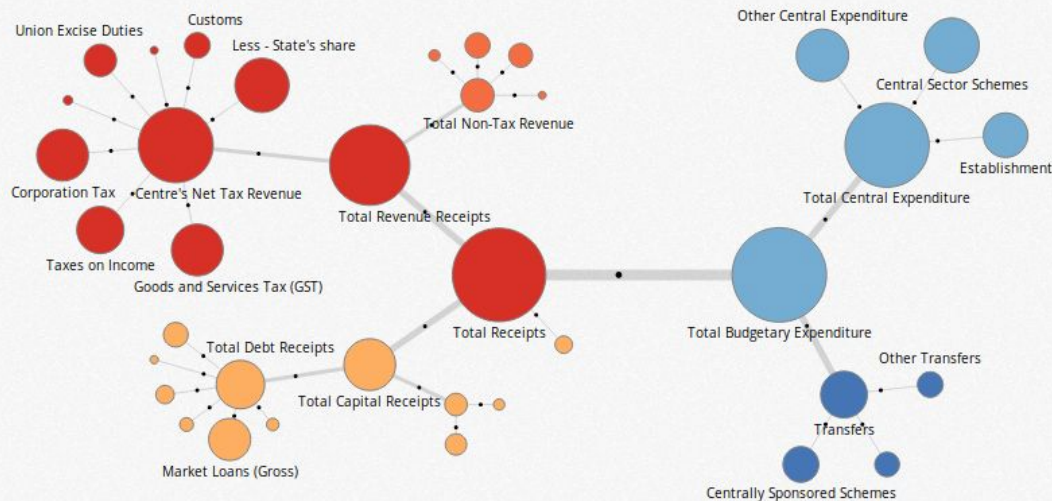
This section presents the comprehensive money flow data of the Union Budget 2019-20 (Interim). It presents both the sources of revenue of the Union Government and the expenditure commitments it has made on different heads.

Note: Percentage changes have been calculated with respect to 2018-19 Budget Estimate Figures. The figures for total Union Budget Expenditure, for budget estimates of 2018-19 and 2019-20(I), include Funds collected from GST Compensation Cess, which are transferred to a non-lapsable fund in the Public Account. Moreover, the figure for total receipts is taken net of fund transferred to the National Calamity Contingency Fund.

Total Receipts Budget

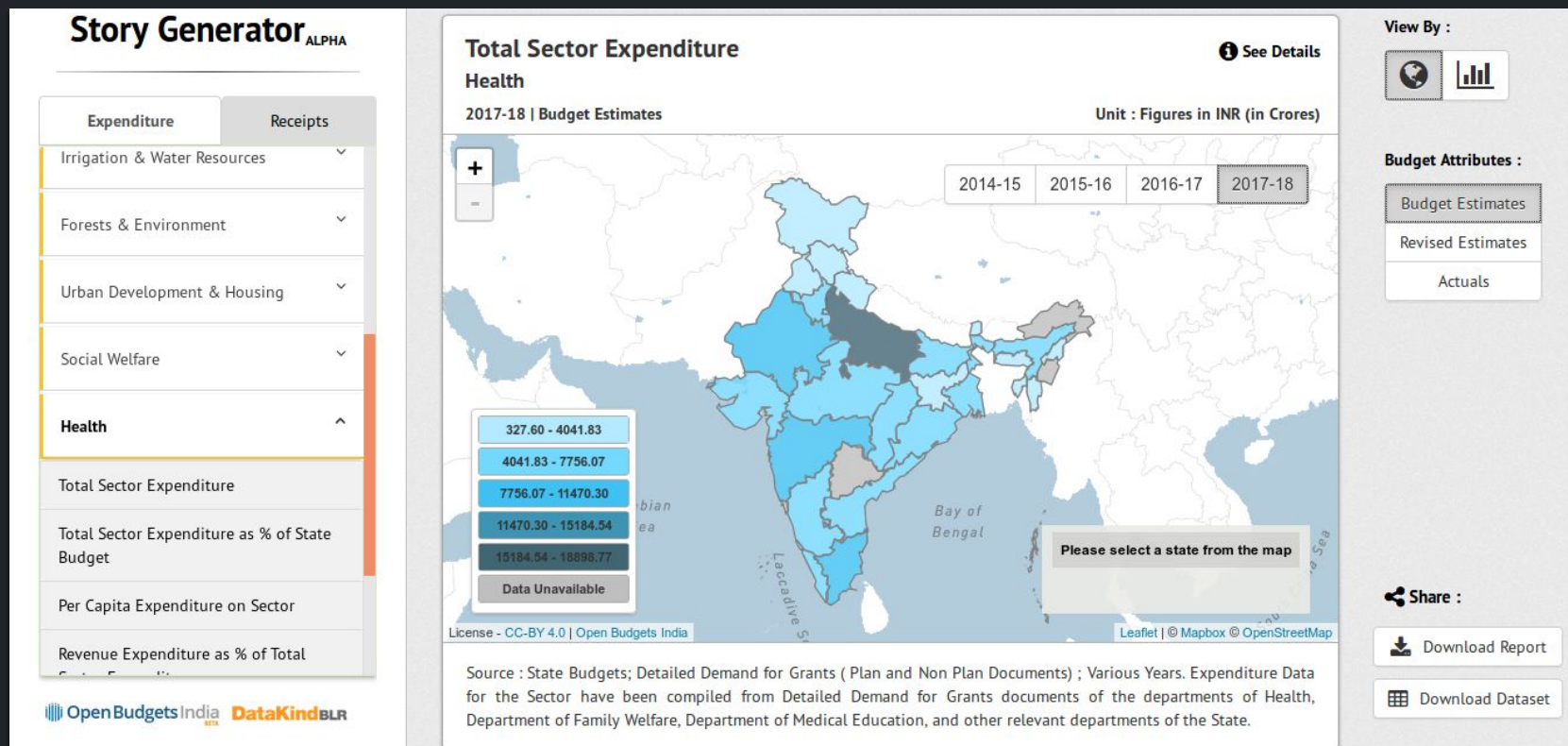
₹ 2732903 Cr. **13.91%**

Budget Profile



Source: <https://union2019.openbudgetsindia.org>

Comparing State Budgets using OBI's StoryGenerator



Source: <https://cbgaindia.github.io/story-generator/>

Analyzing Daily District Spending

Filters

Time range

Last week

Time Grain

8 option(s)

department_name

Select [department_name]

ddo_name

Select [ddo_name]

major_head

Select [major_head]

sub_major_head

Select [sub_major_head]

minor_head

Select [minor_head]

sub_minor_head

Select [sub_minor_head]

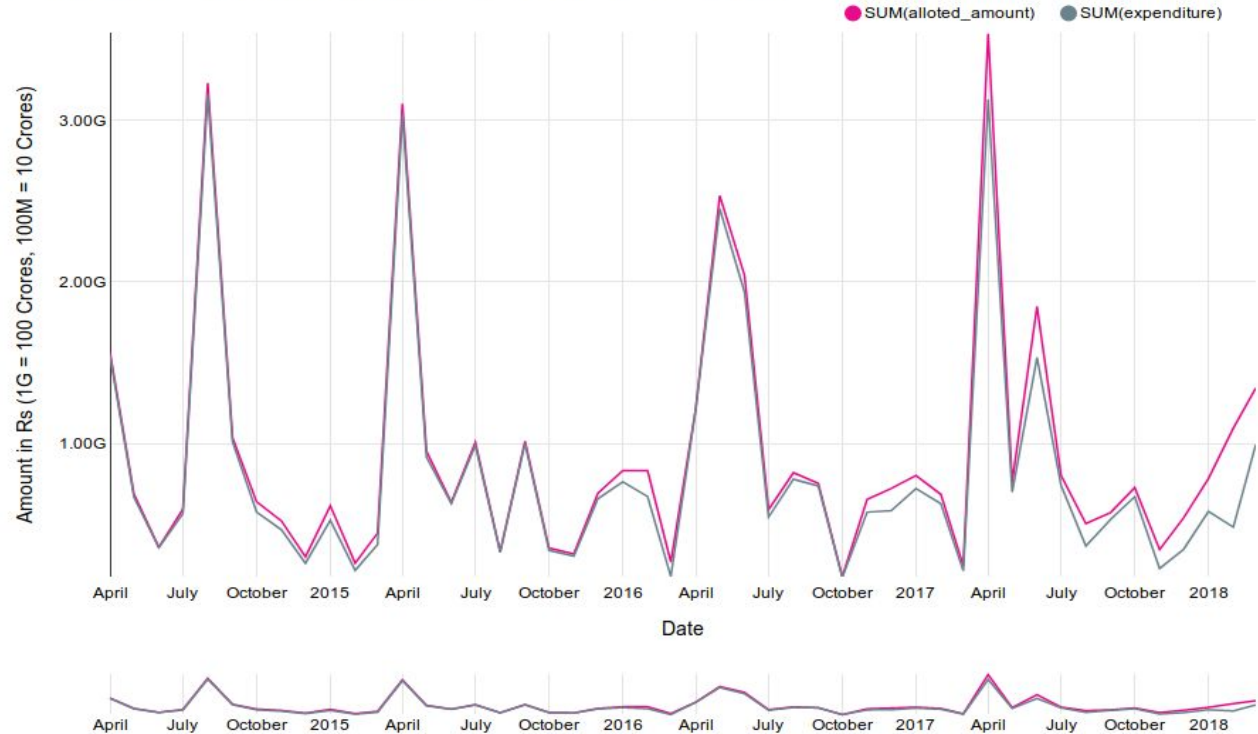
detailed_head

Select [detailed_head]

object_head

Select [object_head]

Alloted Amount & Expenditure over the financial years for Balasore District Treasury



Source: https://github.com/CivicDataLab/district_treasury_analysis

Building Tech & Data Capacity of Governments



Source: <https://blog.openbudgetsindia.org/open-budgets-indias-workshop-with-assam-s-finance-department-6f796b5f683b>

Developing State level Budget Transparency Tools

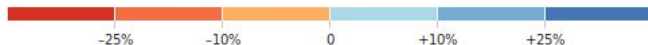
Home Budget Highlights Expenditure ▾ Receipts

Total Grant Wise Budget Allocation

₹ 99418.92 Cr. **10.14 %**

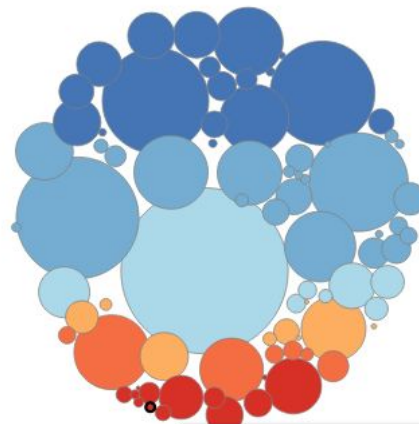
The bubble chart provides an overview of grant-wise allocations made by the Government of Assam in financial year 2019-20. The bubbles also depict the percentage changes in allocations as compared to the budget estimates of 2018-19.

Colour of the bubbles represent increases / cuts in allocations in 2019-20 as compared the budget estimates of 2018-19.



The size of the bubble represents the amount of allocations relative to other departments.

Search:



Grant No. 75 - Information &
Technology

₹ 24.47 Cr. **59.26 %**

CSV

Excel

PDF

Source: <https://assam2019.openbudgetsindia.org>



Case Study - 2

VAYAM

Analyzing Judicial Data
across various courts in
India



Image Source: [https://commons.wikimedia.org/wiki/File:Supreme_Court_of_India_-_200705_\(edited\).jpg](https://commons.wikimedia.org/wiki/File:Supreme_Court_of_India_-_200705_(edited).jpg)

Performing Time-series Analysis of Our Courts

Hearing Insights Case Filing Patterns General Stats Disposal Patterns

Case Hearing Filter Box

case_type

Select [case_type]

under_acts

Select [under_acts]

under_sections

Select [under_sections]

court_establishment

Select [court_establishment]

police_station

Select [police_station]

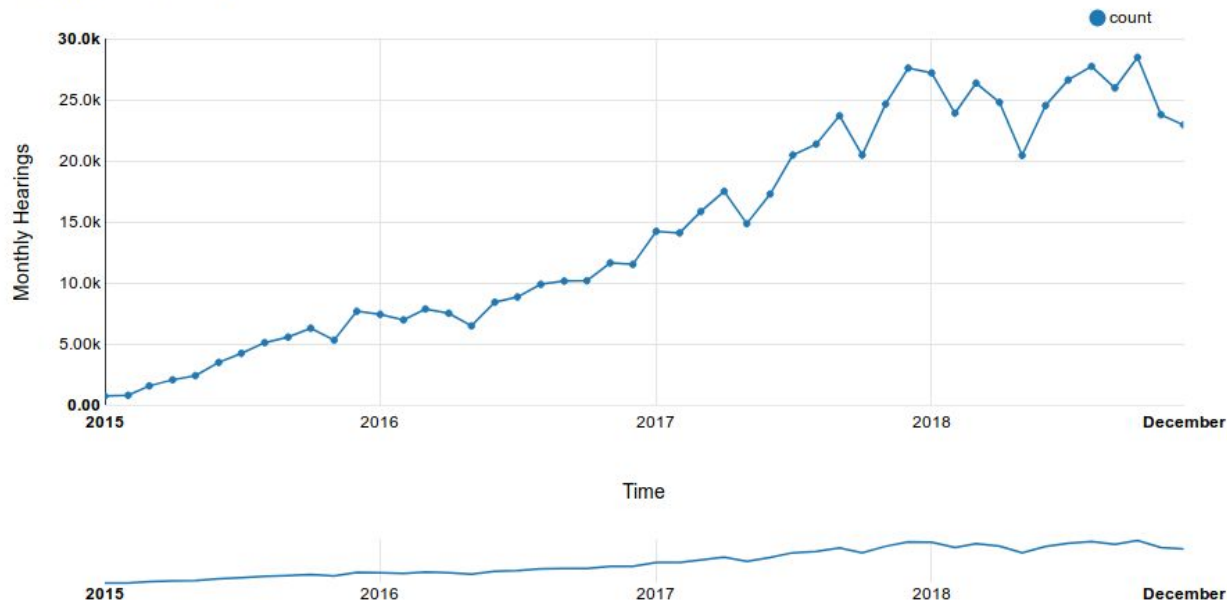
judge_designation

Select [judge_designation]

case_age_intervals

Select [case_age_intervals]

Monthly Case Hearing



Source: <https://superset.civickdatalab.in/superset/dashboard/ojdp-pune/>

Exploring filing patterns across Court Establishments



Source: <https://superset.civicaldata.in/superset/dashboard/ojdp-pune/>

Case Study - 3



Assistive Machine
Translation for Children
Story Books in Indic
Languages





Translate

your favorite story now!

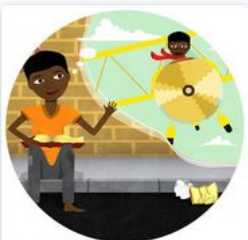
Translate a story now

10664
STORIES

1694480
READS

129
LANGUAGES

Looking for a story to read? How about one of these?



Source: <https://storyweaver.org.in/>

Building Open Parallel Corpora for Indic Languages

Miss Bandicota Bengalensis
Discovers the Old Caves Page 1/20 ▾


Zoom + -

Original | Translation Last Saved 11:39AM

Text Size ▾ Text Style ▾

Delete Preview Save Publish

Tips



அந்த குழுவில் கல்லுவும் தாமுவும் ஒன்பதாம்
வகுப்பிலும், சரூவும் முனியாவும் எட்டாம்
வகுப்பிலும், அவர்களில் சிறியவனான ஷப்பூ
ஏழாம் வகுப்பிலும் படித்தனர்.

Source: <https://storyweaver.org.in/>

Collaborate with Us

CivicDataLab

Data | Tech | Design | Social Science



Email: info@civicdatalab.in

Website: <https://www.civicdatalab.in/>

Twitter: <https://twitter.com/civicdatalab>

LinkedIn: <https://www.linkedin.com/company/civicdatalab/>