

Project Intro

Problem Description

- Our project aims to present and visualise the Collected and archived Data about the Indian Biodiversity and see how widespread the Flora and fauna cover is in the Indian subcontinent
- The visualisations will help a user learn about the diversified Forest Cover, Ramsar sites (Wetlands deemed internationally important), animal populations in different parts of the country and possible reasons for the increase/decrease of the biodiversity in India
- The Dataset has been gathered From multiple sources such as the government Data repositories, Global Wildlife and forest organisations etc

Data Sources

- [https://www.bbau.ac.in/dept/dz/TM/AS-302 Wildlife and Conservation Biology.pdf](https://www.bbau.ac.in/dept/dz/TM/AS-302%20Wildlife%20and%20Conservation%20Biology.pdf)
- <http://datazone.birdlife.org/country/india/ibas>
- <https://www.globalforestwatch.org/>
- <https://bigcatsindia.com/tiger-census-2018/>
- http://www.wiienvis.nic.in/Database/Protected_Area_854.aspx
- <https://ourworldindata.org/>
- <https://rsis Ramsar.org/>
- <https://seea.un.org/fr/file/14963/download?token=Ovw3AdzA>

We also extracted some data from images on these sites using tools.

Data Description

▼ Table - 1

Describes the Forest Cover in each state over the years

Year	State	Forest Area(hectares)	Total Area(hectares
<i>Year of the Data</i>	<i>State in India</i>	<i>Area in the State covered with labeled forests</i>	<i>total Area of the State in hectares</i>

Chart Used - https://d3-graph-gallery.com/circular_barplot.html with a slider

▼ Table - 2

Ramsar Sites in India and their location

Ramsar Site No.	Site Name	Latitude	Longitude	Area	Ecosystem Services
<i>Site Index</i>	<i>Name of the site</i>	<i>Latitude of the site</i>	<i>Longitude of the site</i>	<i>Total Area of the site</i>	<i>Ecosystem services provided by the site</i>

<https://embed.plnkr.co/i2eLwxweLJhuUgTuOS4x/>

▼ Table - 3

Reasons for the Deforestation and their affects in tree cover loss

Reasons for the loss	Year	Total tree Cover loss in hectares
<i>The Natural/Human reasosn for the tree loss</i>	<i>year of the tree loss reported</i>	<i>Area lost in hectares</i>

Chart Used - <https://www.globalforestwatch.org/dashboards/country/IND/?category=summary&dashboardPrompts=eyJzaG93UHJvbXB0cyI6dHJ1ZSwicHJvbXB0c1ZpZXdlZCI6WVYJ2aWV3TmF0aW9uYVY>

▼ Table - 4

Tiger population in India over the years

year	Tiger Population count
Year of data collection	Count of tigers in india in that year

On an indian map , show growth of population in different states

<https://observablehq.com/@mbostock/walmarts-growth>

▼ Table - 5

Extinct species data of various mammals

Sunburst

▼ Table - 6

Reasons for Animal Population Decreases Worldwide

Rank	Cause of Species Loss	% of Loss due to the Cause
Rank of the reason in terms of loss	Different reasons for animal Population decrease	Total loss by cause in percentage

Pie Chart

Relations that we will be analysing

- How has the forest cover in each of the indian states has changes over the years ?
- Different area and location of the ramsar sites in india and the ecosystem they provide
- Contribution of various reasons of deforestation across several years
- Analysis of the “most popularly known “ endangered species “Tiger” in india
- Contribution of causes of elephant population decline over 2010-2018
- Contribution of causes of animal population decline all over the world