

# Traffic And Capacity Analytics For Major ports

## 1.Data Collection:

### DATASET

Port	Traffic in El	Traffic in El	Traffic in El	Total Capac	Total Capac	Total Capacity in Eleventh Plan (MT) (2011-12) %				
Kolkata	1343	1223	9100	3145	1635	5100				
Haldia	4450	3101	7000	6340	5070	7900				
Paradeep	7640	5425	7100	10640	7650	7100				
Visakhapat	8220	6742	8200	10810	7293	6700				
Ennore	4700	1496	3200	6420	3100	4800				
Chennai	5750	5571	9700	7230	7972	11000				
Tuticorin	3172	2810	8900	6398	3334	5200				
Cochin	3817	2010	5300	5475	4098	7400				
NMPT	4881	3294	6800	6050	5097	8400				
Mormugao	4455	3900	8800	6690	4190	6200				
Mumbai	7105	5618	7900	9191	4453	4800				
JNPT	6604	6575	10000	9560	6400	6600				
Kandla	8672	8250	9500	12220	8691	7100				

## 2.Data Preparations:

Some prevalent challenges faced while collecting data are inconsistent data, ambiguous data, duplicate data, inaccurate data, too much data, etc.

To overcome this problem data preparation is done.

It is the process of profiling, cleansing, transforming and validating data.

- Data profiling and cleansing
- Data structuring
- Data transformation

- Data validation

## 3.Implementation Details:

Data analytics for analysing and estimating traffic and capacity on major ports is done by creating various graphs and charts

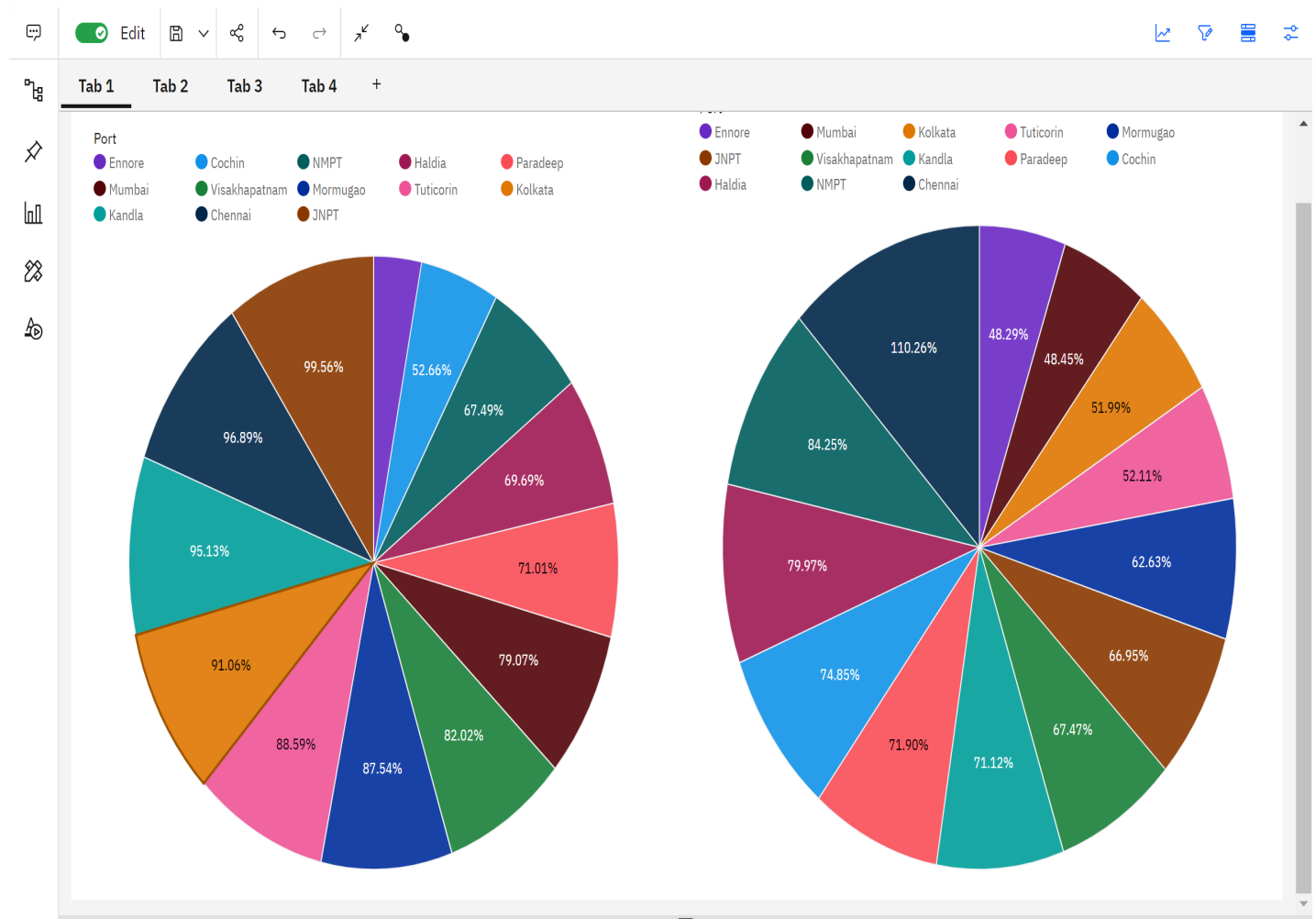
to highlight the insights and visualizations.

Plotting different graphs give broad understanding about the data and relationship among the features of data.

This supports in creating meaningful dashboards for exploring the data and making future predictions from them.

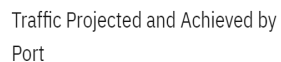
## 4.Data Visualization :

Each piece (port) is a level of the categoric variable, and the percentage of traffic is the numeric variable.



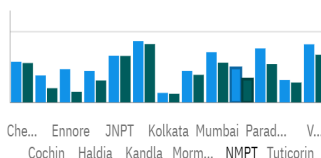


● Total Percent



## Measures

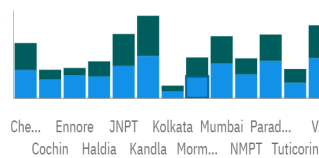
● Traffic Achieved



### Traffic Projected vs Achieved by Port

## Measures

● Traffic Projected ● Traffic Achieved



Port

Q ...

Q Search

- ☒ Chennai
- ☒ Cochin
- ☒ Ennore
- ☒ Haldia
- ☒ JNPT
- ☒ Kandla
- ☒ Kolkata
- ☒ Mormugao
- ☒ Mumbai
- ☒ NMPT
- ☒ Paradeep
- ☒ Tuticorin
- ☒ Visak...atnam

### Total Capacity Achieved vs Projected by Port

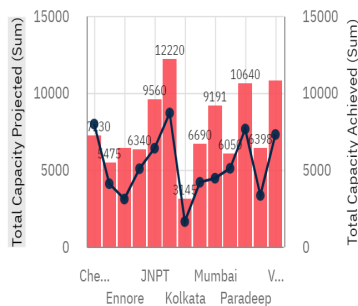


Column

● Total Capacity Projected (Sum)

Line

● Total Capacity Achieved (Sum)



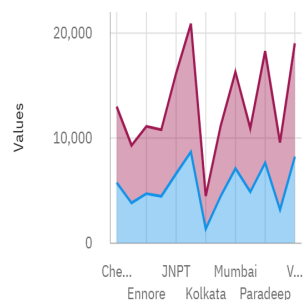
### Projected Traffic vs Total Capacity by Port



## Measures

● Traffic Projected

● Total Capacity Projected



### Total Capacity Achieved vs Traffic Achieved by Port

## Measures

● Total Capacity Achieved

● Traffic Achieved

