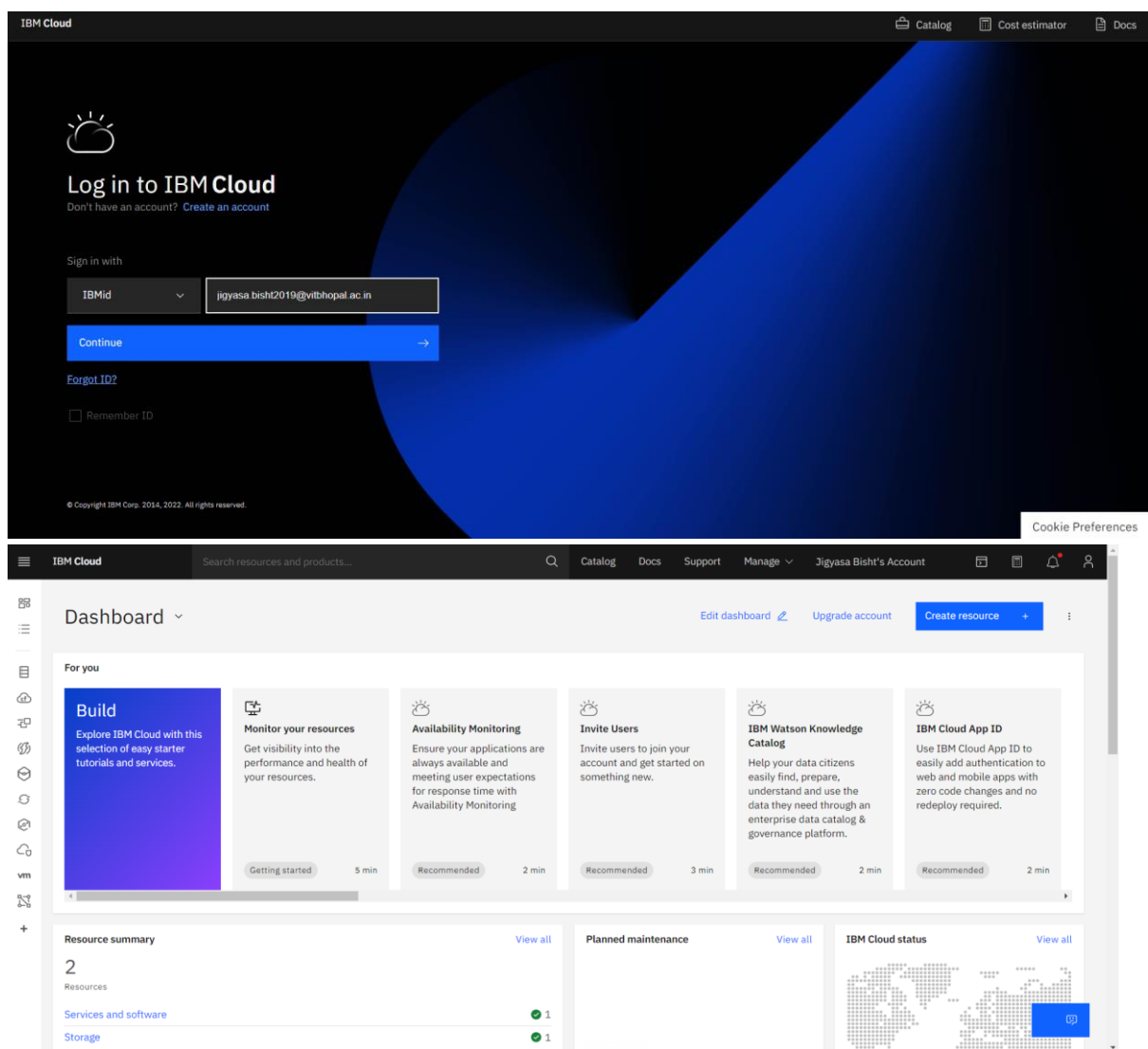# Major Port Traffic and Capacity Analytics using IBM Cognos Analytics

Submitted by

JIGYASA BISHT
19BAI10025

Steps to be followed with respective screenshots of the tasks

>> Create And Login to IBM Account

>> Loading the Dataset

>> Prepare the Dataset

>> Prepare Calculations

Create calculation

Name: Traffic Percent

Expression:
```
1  Traffic_in_Eleventh_Plan_MT_2011_12_Ach / Traffic_in_Eleventh_Plan_MT_2011_12_Proj
```

Components:
- datafile.csv
  - Traffic Percent
  - # Row Id
  - Port
  - Traffic Projection
  - Traffic Achievement
  - Traffic Percentage
  - Total Capa...rojection
  - Total Cap...ievement
  - Total Cap...ercentage

Validation Results
The expression is valid.

☐ Calculate after aggregation   Cancel   OK

Create calculation

Name: Total Percent

Expression:
```
1  Total_Capacity_in_Eleventh_Plan_MT_2011_12_Ach / Total_Capacity_in_Eleventh_Plan_MT_2011_12_Proj
```

Components:
- datafile.csv
  - Traffic Percent
  - # Row Id
  - Port
  - Traffic Projection
  - Traffic Achievement
  - Traffic Percentage
  - Total Capa...rojection
  - Total Cap...ievement
  - Total Cap...ercentage

Validation Results
The expression is valid.

☐ Calculate after aggregation   Cancel   OK
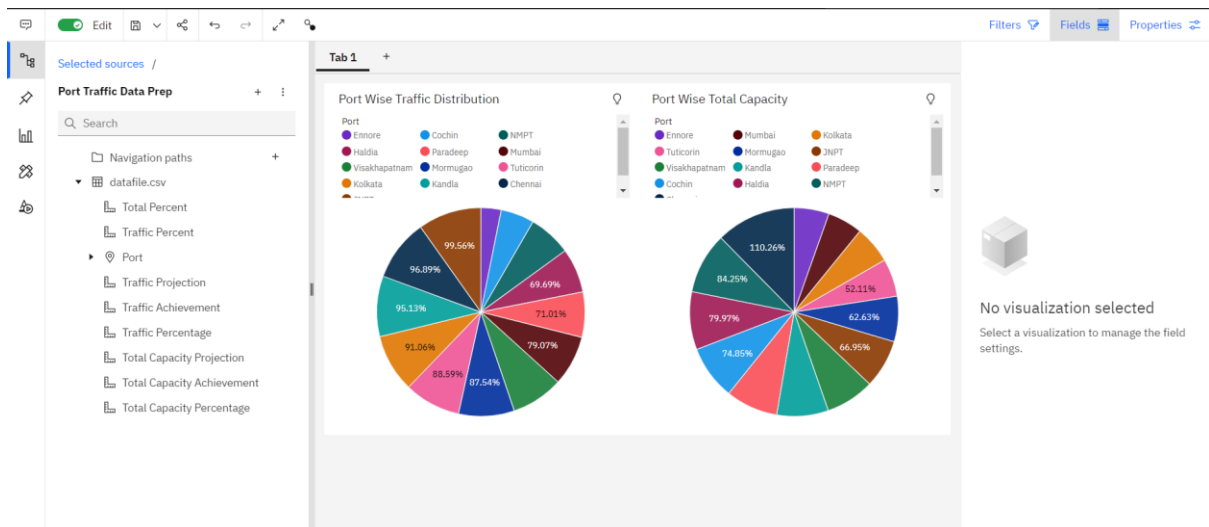
Data module

- New data module
  - Navigation paths
  - datafile.csv
    - Total Percent
    - Traffic Percent
    - # Row Id
    - Port
    - Traffic Projection
    - Traffic Achievement
    - Traffic Percentage
    - Total Capacity Projection
    - Total Capacity Achievement
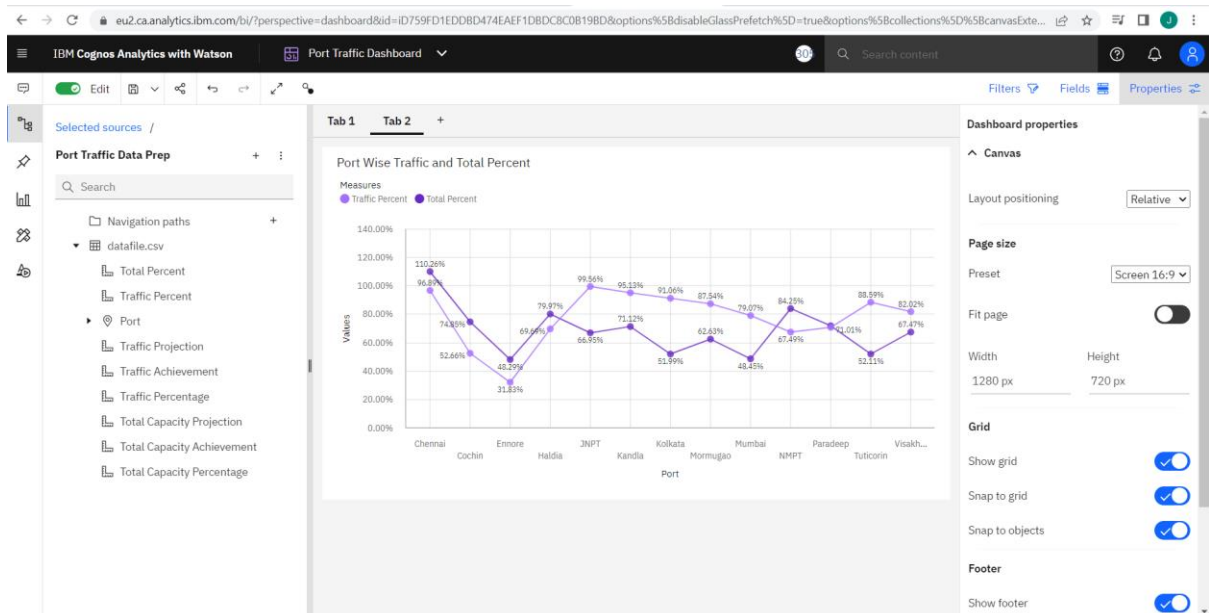   - Total Capacity Percentage

Grid | Relationships | Custom tables

Total Percent	Traffic Percent	Row Id	Port	Traffic Projection	Traffic Achievement
51.99%	91.06%	1	Kolkata	1343	1223
79.97%	69.69%	2	Haldia	4450	3101
71.90%	71.01%	3	Paradeep	7640	5425
67.47%	82.02%	4	Visakhapatnam	8220	6742
48.29%	31.83%	5	Ennore	4700	1496
110.26%	96.89%	6	Chennai	5750	5571
52.11%	88.59%	7	Tuticorin	3172	2810
74.85%	52.66%	8	Cochin	3817	2010
84.25%	67.49%	9	NMPT	4881	3294
62.63%	87.54%	10	Mormugao	4455	3900
48.45%	79.07%	11	Mumbai	7105	5618
66.95%	99.56%	12	JNPT	6604	6575
71.12%	95.13%	13	Kandla	8672	8250

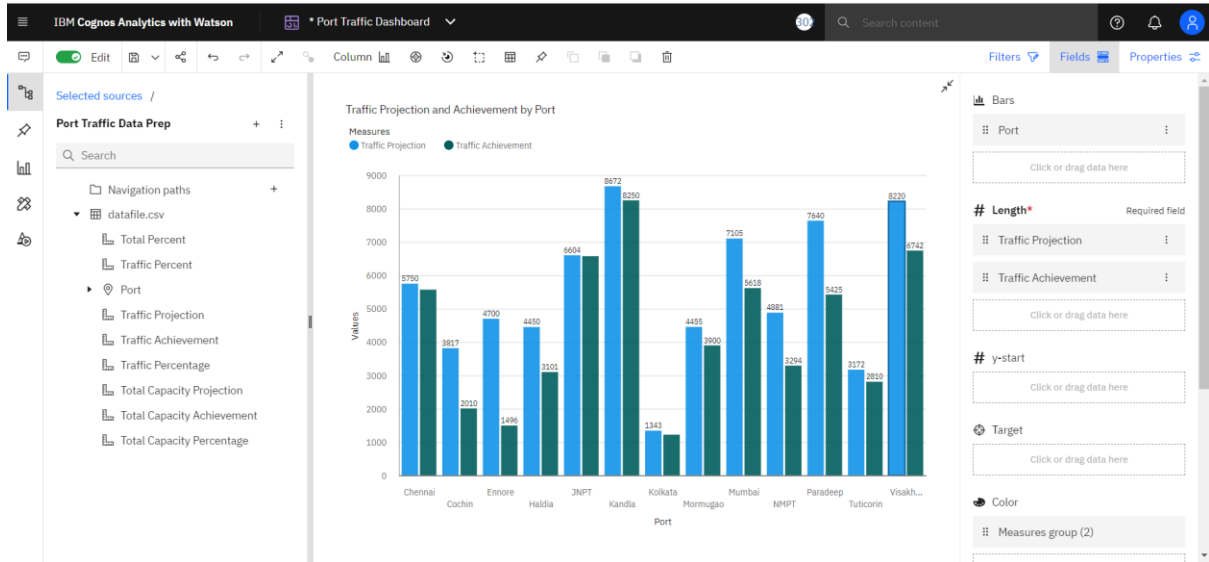# >> Data Visualization Charts

Port Wise Traffic Distribution, Port Wise Capacity Distribution
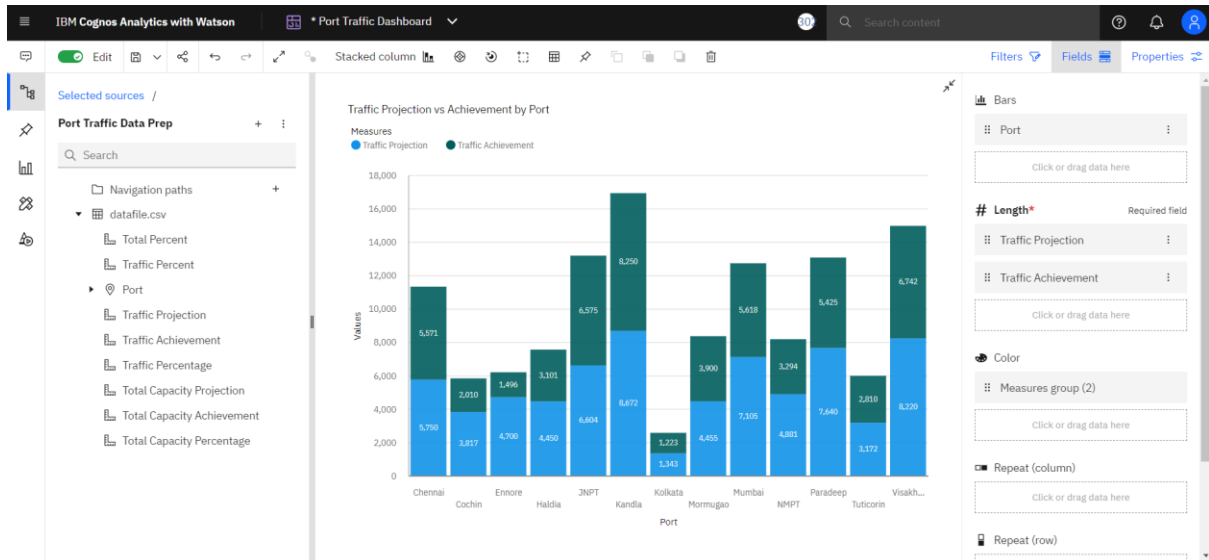

Port Wise Traffic vs Capacity by Line Chart
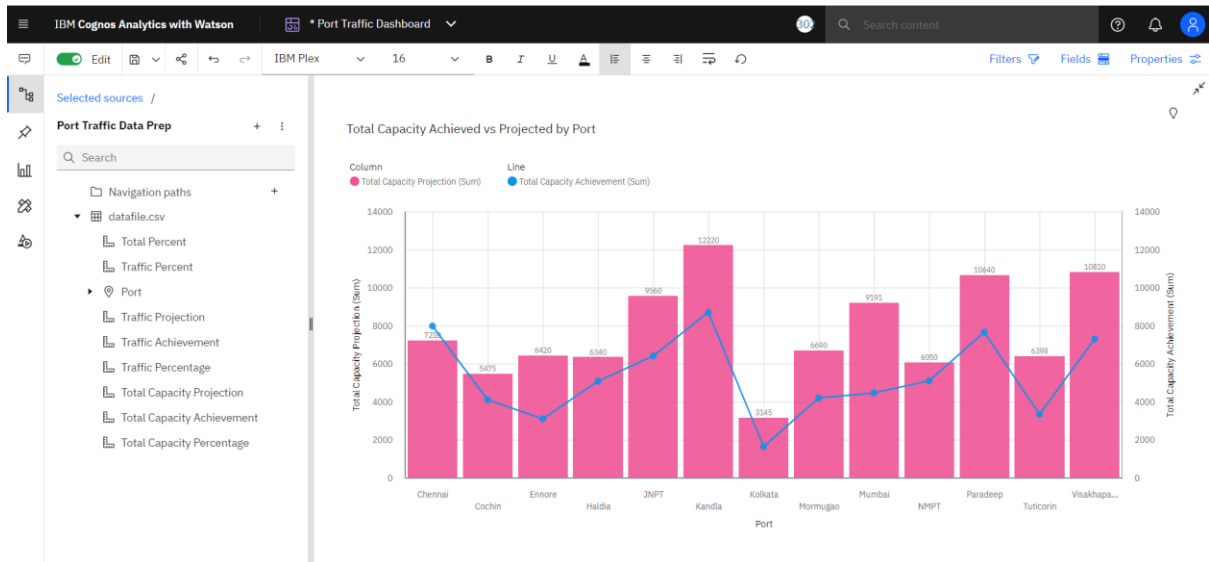
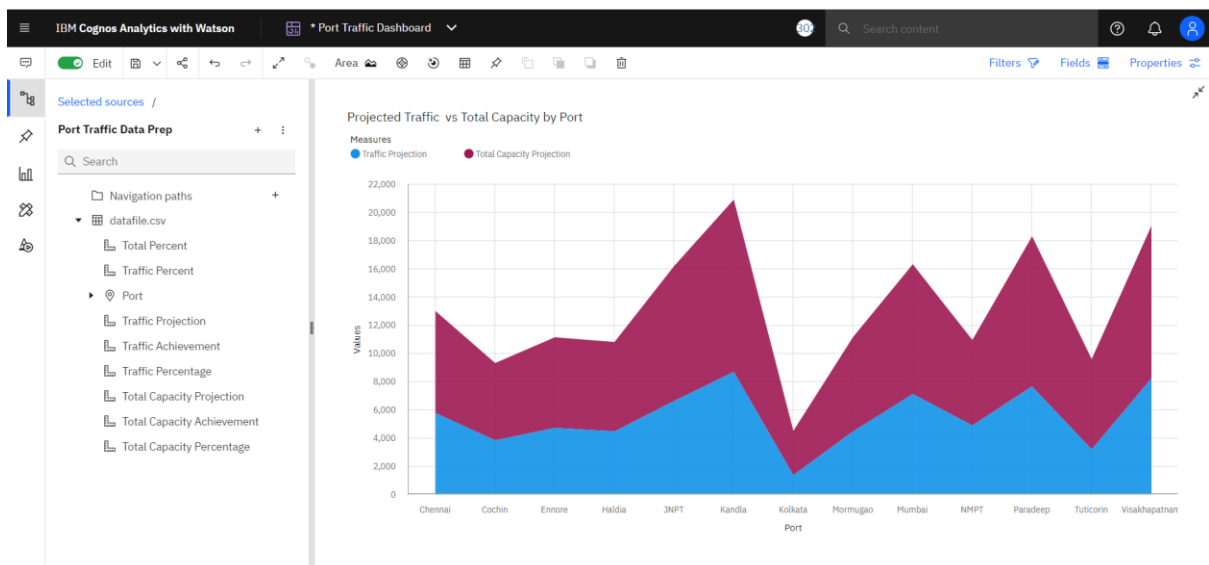# Port WiseTraffic Projected vs Achieved by Column Chart

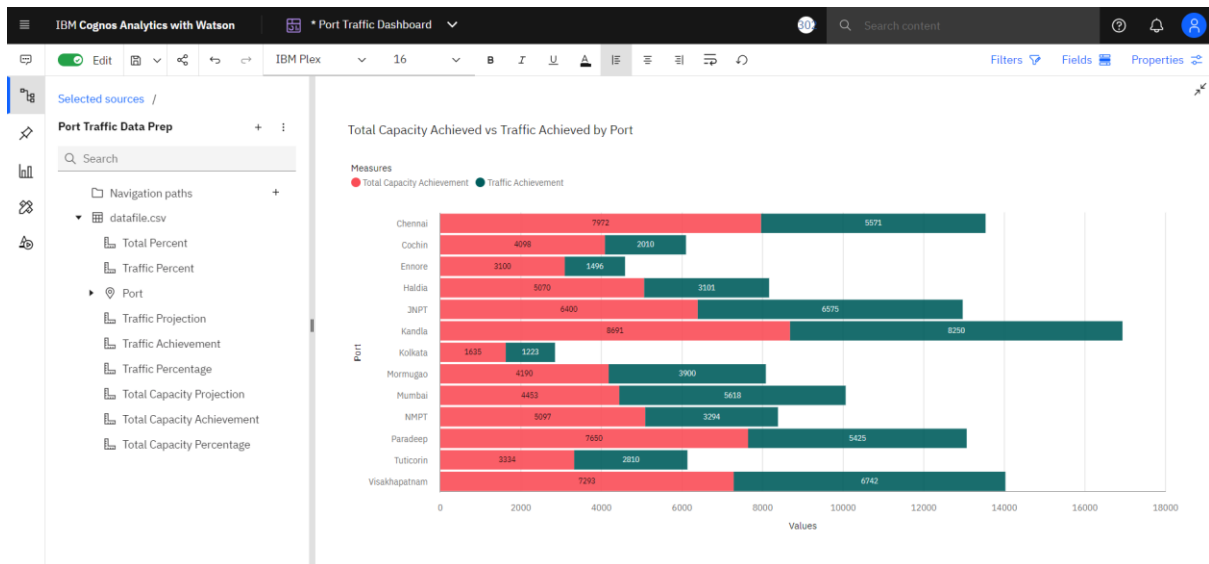# Port WiseTraffic Projected vs Achieved by Stacked Column Chart

Port Wise Total Capacity Projects vs Total Capacity Achieved by Line and Bar Chart
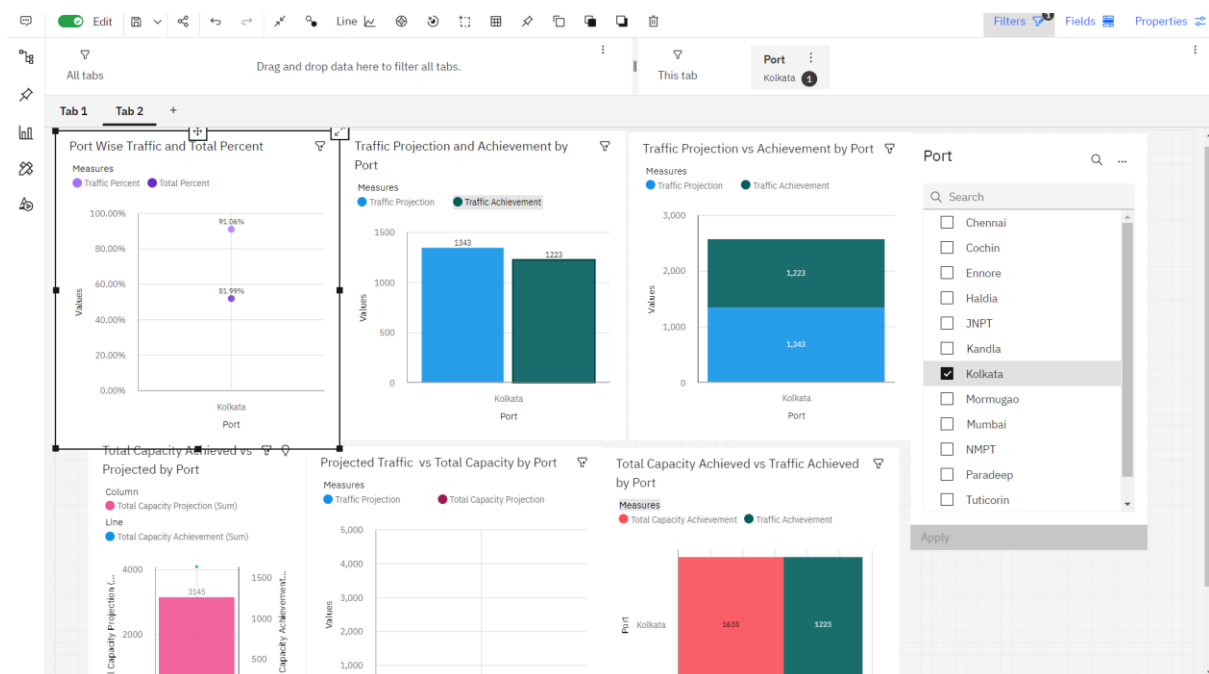

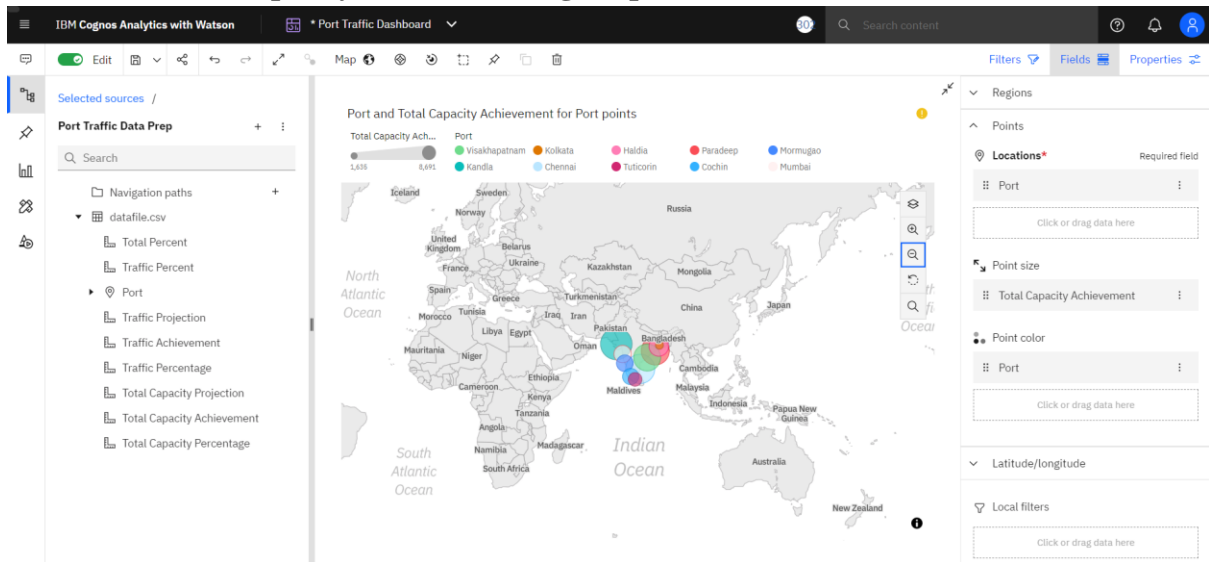# Port Wise Traffic Projects vs Total Projected by Area Chart

Port Wise Total Capacity Achieve, Traffic Achieved using Stacked Bar

Filters

Port Wise Total Capacity Achieved Using Map

Summary Cards and visual using Total Capacity vs Actual Capacity Column Chart