

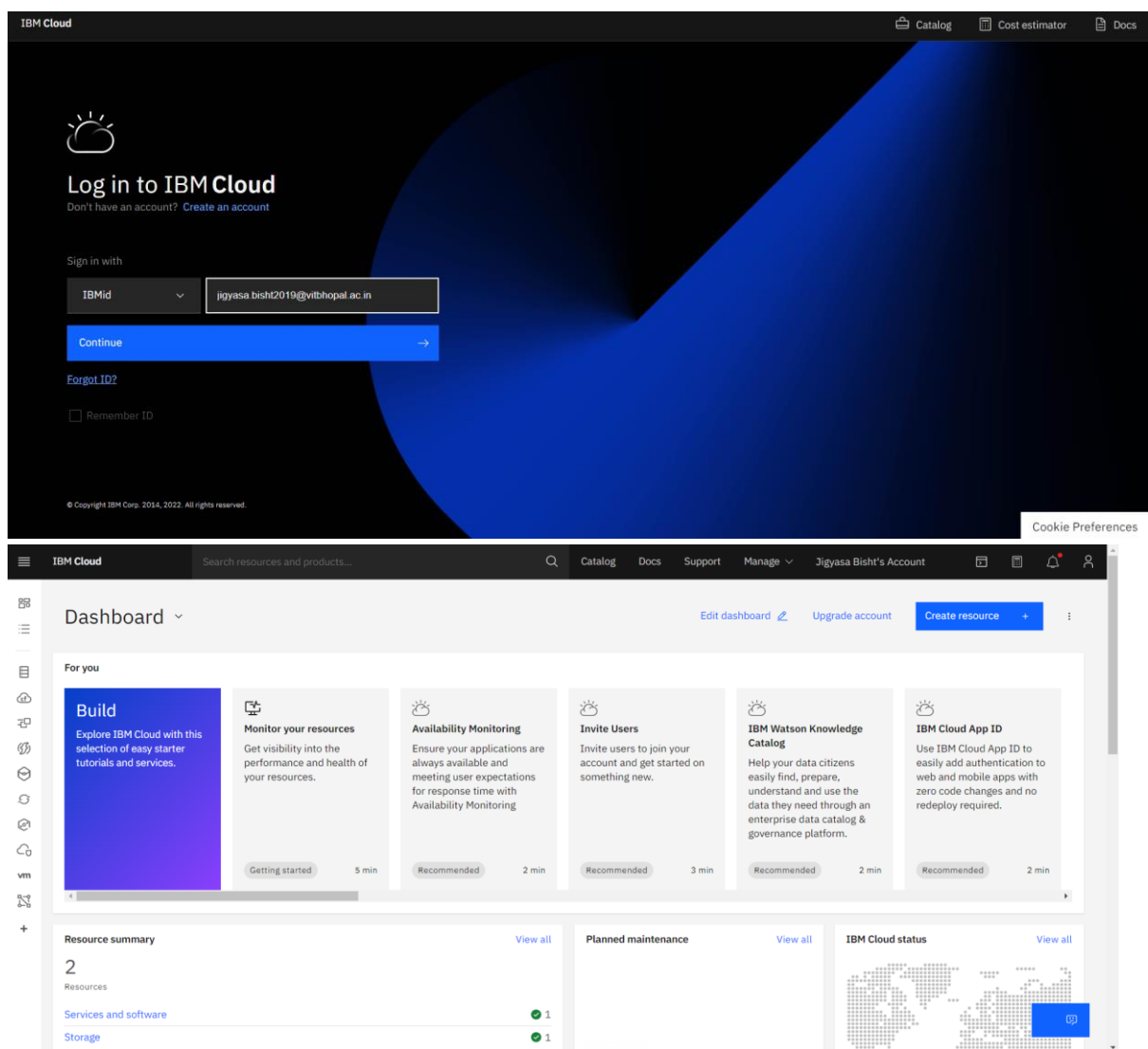
Major Port Traffic and Capacity Analytics using IBM Cognos Analytics

Submitted by

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Steps to be followed with respective screenshots of the tasks

>> Create And Login to IBM Account



>> Loading the Dataset

The dashboard shows a welcome message and a notification that 'datafile.csv was uploaded successfully.' Below this, there are buttons for 'Watch video' and 'Take a product tour'. The 'Quick launch' section contains four cards: 'Upload data', 'Prepare data', 'Exploration', and 'Present data'.

Upload data
Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data
Use data modules to clean and connect data from multiple resources.

Exploration
Quickly find unbiased answers by identifying trends in your data with data exploration.

Present data
Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

>> Prepare the Dataset

The 'Data module' panel on the left shows a tree structure with 'datafile.csv' expanded, listing various data modules. The 'Grid' tab is selected, displaying a table with 13 rows and 7 columns.

Row Id	Port	Traffic Projection	Traffic Achievement	Traffic Percentage	Total Capac... Project
1	Kolkata	1343	1223	9100	3145
2	Haldia	4450	3101	7000	6340
3	Paradeep	7640	5425	7100	10640
4	Visakhapatnam	8220	6742	8200	10810
5	Ennore	4700	1496	3200	6420
6	Chennai	5750	5571	9700	7230
7	Tuticorin	3172	2810	8900	6398
8	Cochin	3817	2010	5300	5475
9	NMPT	4881	3294	6800	6050
10	Mormugao	4455	3900	8800	6690
11	Mumbai	7105	5618	7900	9191
12	JNPT	6604	6575	10000	9560
13	Kandla	8672	8250	9500	12220

>> Prepare Calculations

IBM Cognos Analytics with Watson

Create calculation

Name: Traffic Percent

Components

- datafile.csv
 - Traffic Percent
 - # Row Id
 - Port
 - Traffic Projection
 - Traffic Achievement
 - Traffic Percentage
 - Total Capacity Projection
 - Total Capacity Achievement
 - Total Capacity Percentage

Expression

1 Traffic_in_Eleventh_Plan_MT_2011_12_Ach / Traffic_in_Eleventh_Plan_MT_2011_12_Proj

Validation Results

The expression is valid.

☐ Calculate after aggregation

Cancel OK

IBM Cognos Analytics with Watson

Create calculation

Name: Total Percent

Components

- datafile.csv
 - Traffic Percent
 - # Row Id
 - Port
 - Traffic Projection
 - Traffic Achievement
 - Traffic Percentage
 - Total Capacity Projection
 - Total Capacity Achievement
 - Total Capacity Percentage

Expression

1 Total_Capacity_in_Eleventh_Plan_MT_2011_12_Ach / Total_Capacity_in_Eleventh_Plan_MT_2011_12_Proj

Validation Results

The expression is valid.

☐ Calculate after aggregation

Cancel OK

IBM Cognos Analytics with Watson

Data module

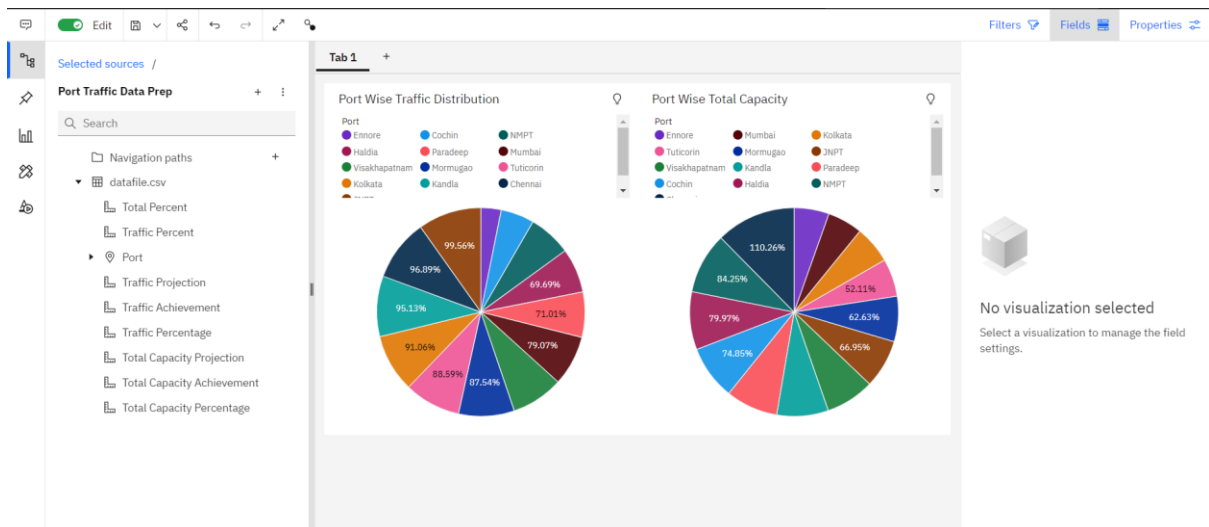
- New data module
- Navigation paths
- datafile.csv
 - Total Percent
 - Traffic Percent
 - # Row Id
 - Port
 - Traffic Projection
 - Traffic Achievement
 - Traffic Percentage
 - Total Capacity Projection
 - Total Capacity Achievement
 - Total Capacity Percentage

Grid

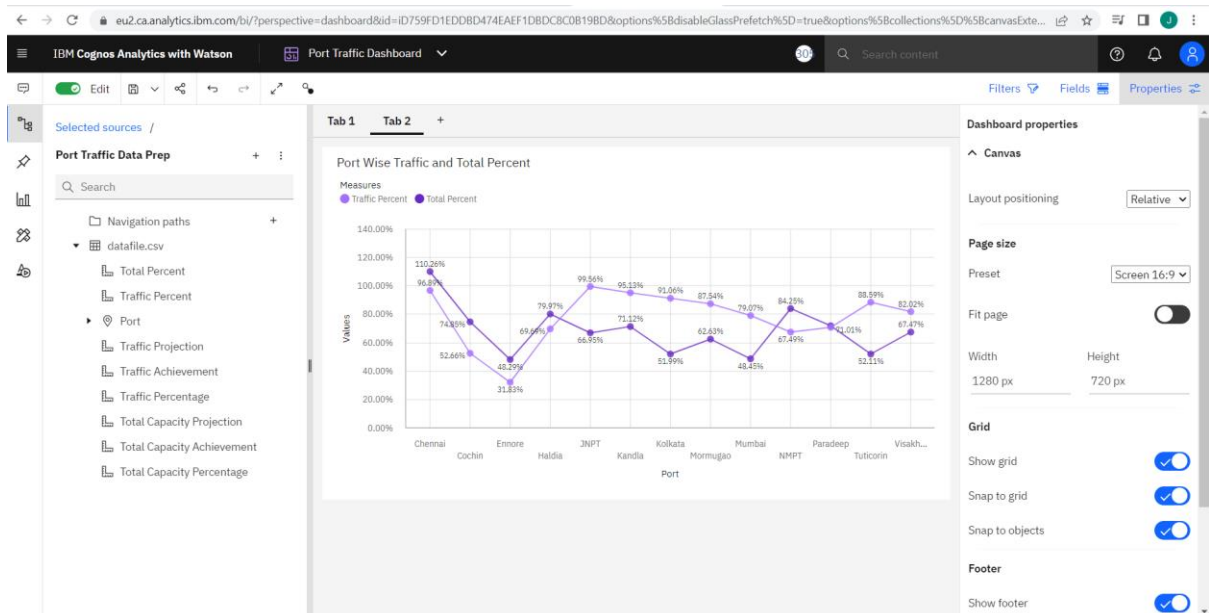
14	Total Percent	Traffic Percent	Row Id	Port	Traffic Projection	Traffic Achievement
	51.99%	91.06%	1	Kolkata	1343	1223
	79.97%	69.69%	2	Haldia	4450	3101
	71.90%	71.01%	3	Paradeep	7640	5425
	67.47%	82.02%	4	Visakhapatnam	8220	6742
	48.29%	31.83%	5	Ennore	4700	1496
	110.26%	96.89%	6	Chennai	5750	5571
	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

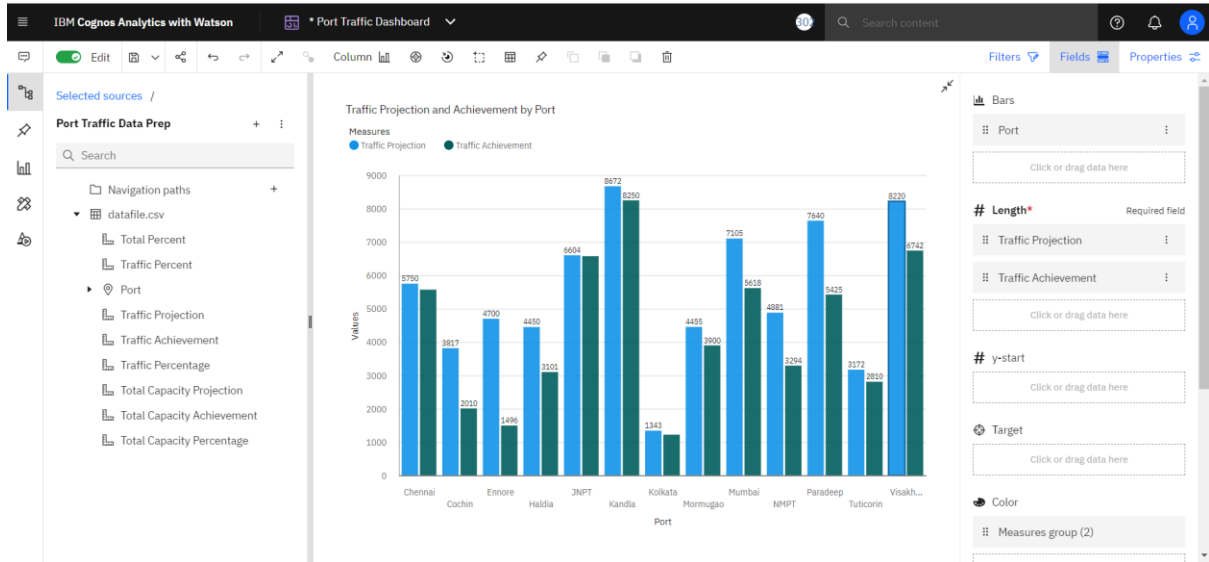
Port Wise Traffic Distribution, Port Wise Capacity Distribution



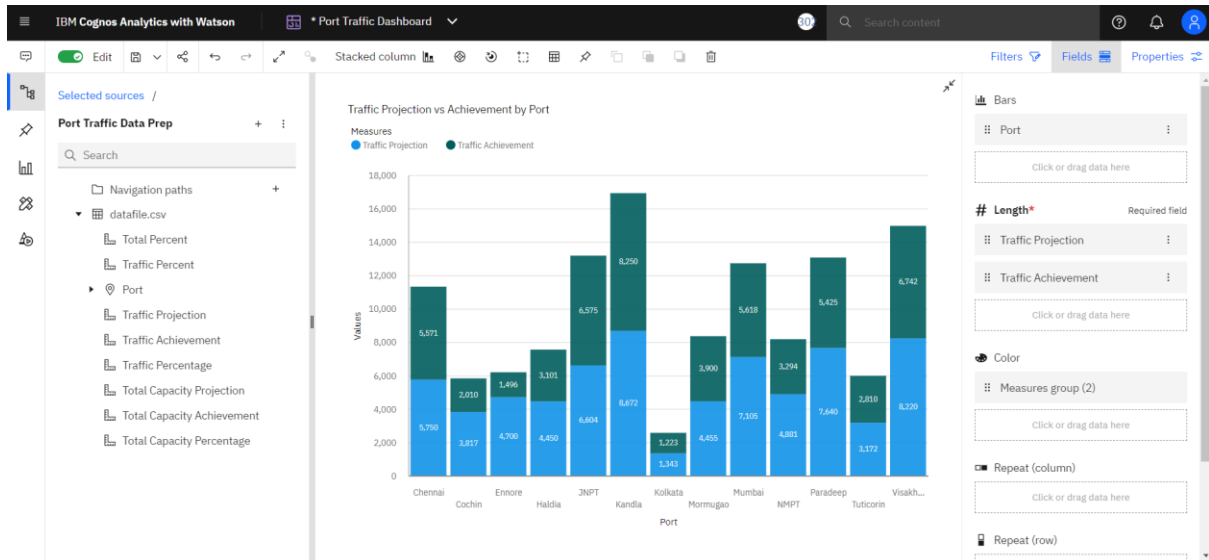
Port Wise Traffic vs Capacity by Line Chart



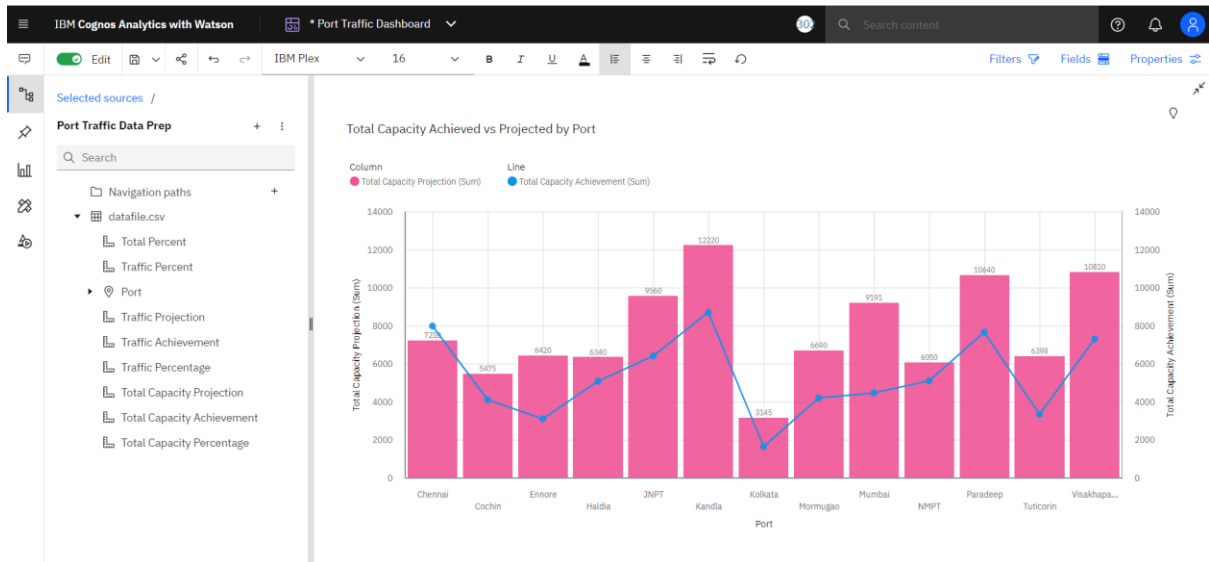
Port Wise Traffic Projected vs Achieved by Column Chart



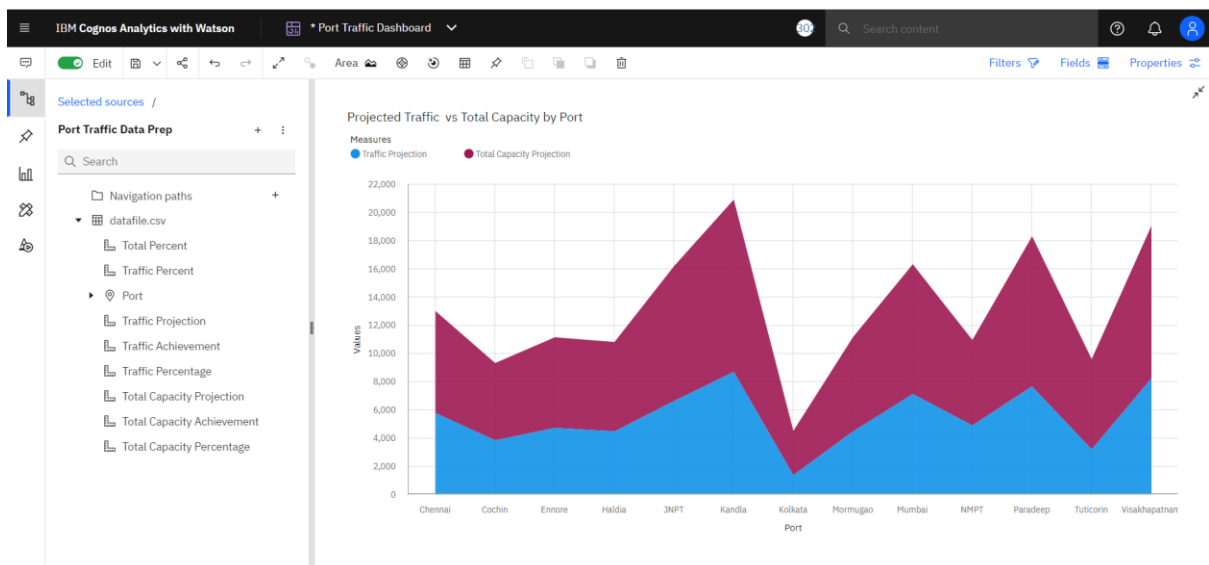
Port Wise Traffic Projected vs Achieved by Stacked Column Chart



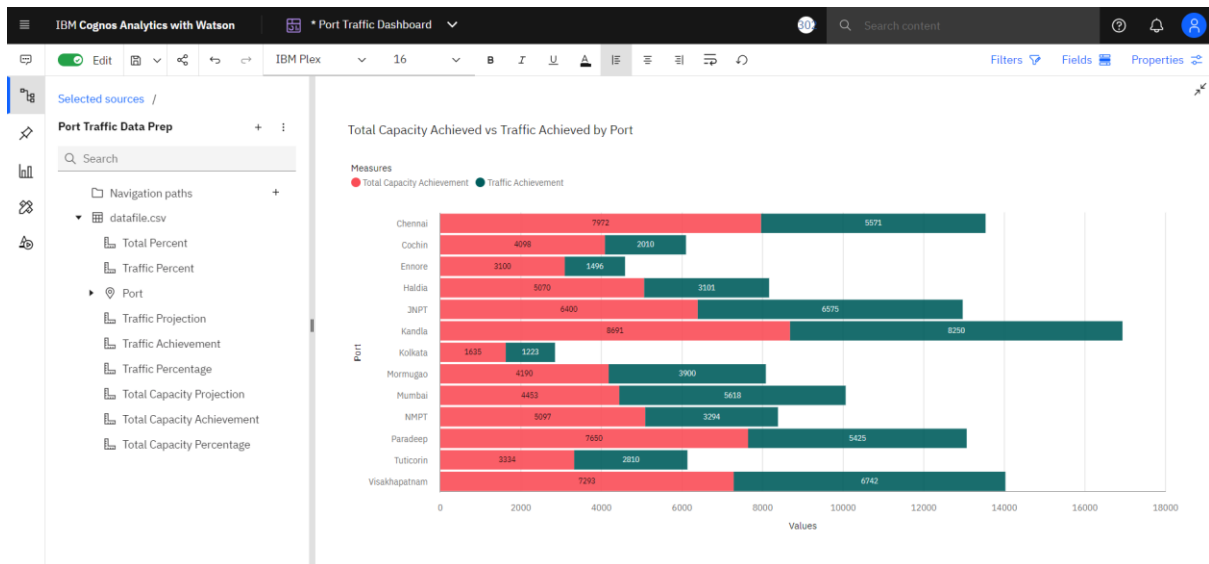
Port Wise Total Capacity Projects vs Total Capacity Achieved by Line and Bar Chart



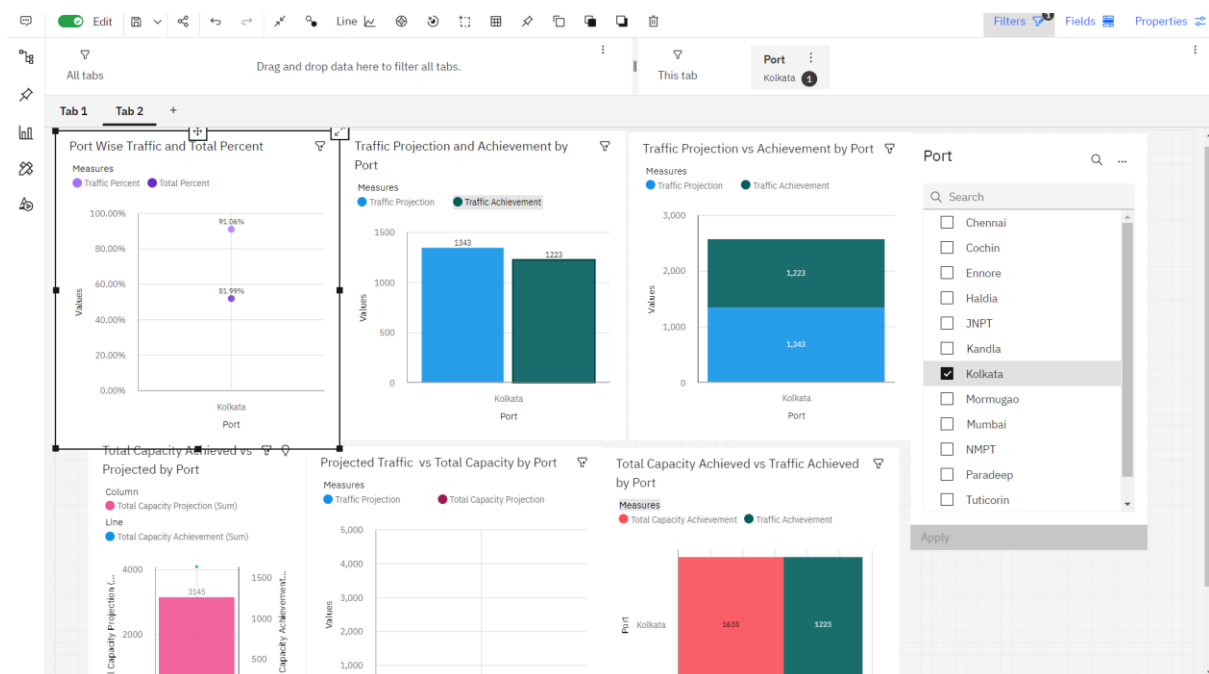
Port Wise Traffic Projects vs Total Projected by Area Chart



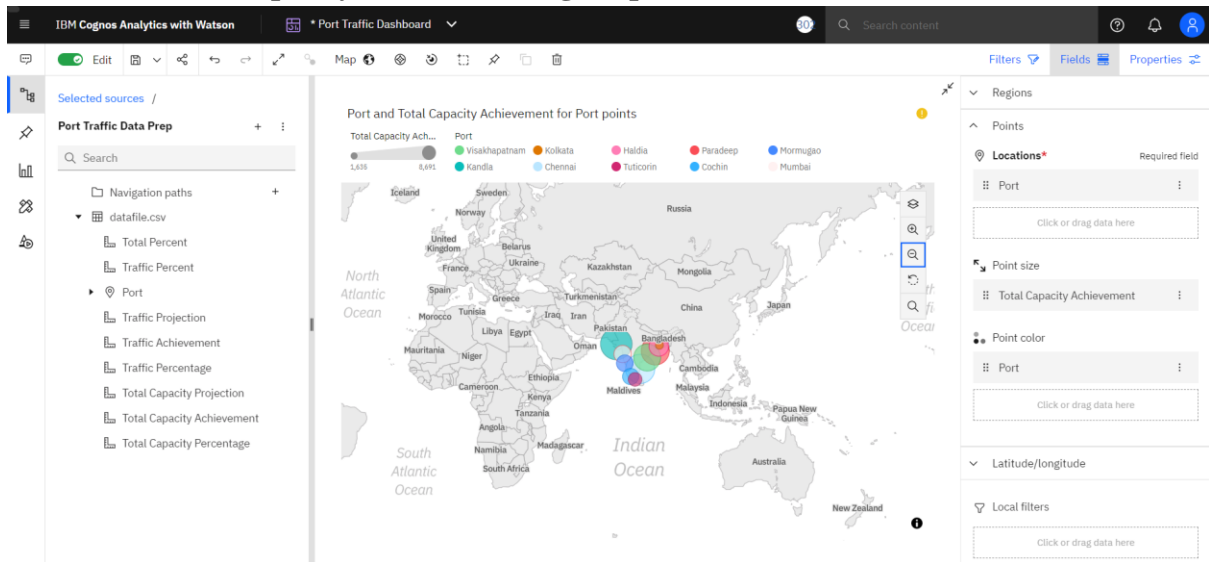
Port Wise Total Capacity Achieve, Traffic Achieved using Stacked Bar



Filters



Port Wise Total Capacity Achieved Using Map



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

