

Power BI and ML

POWER BI AND ML



Power BI

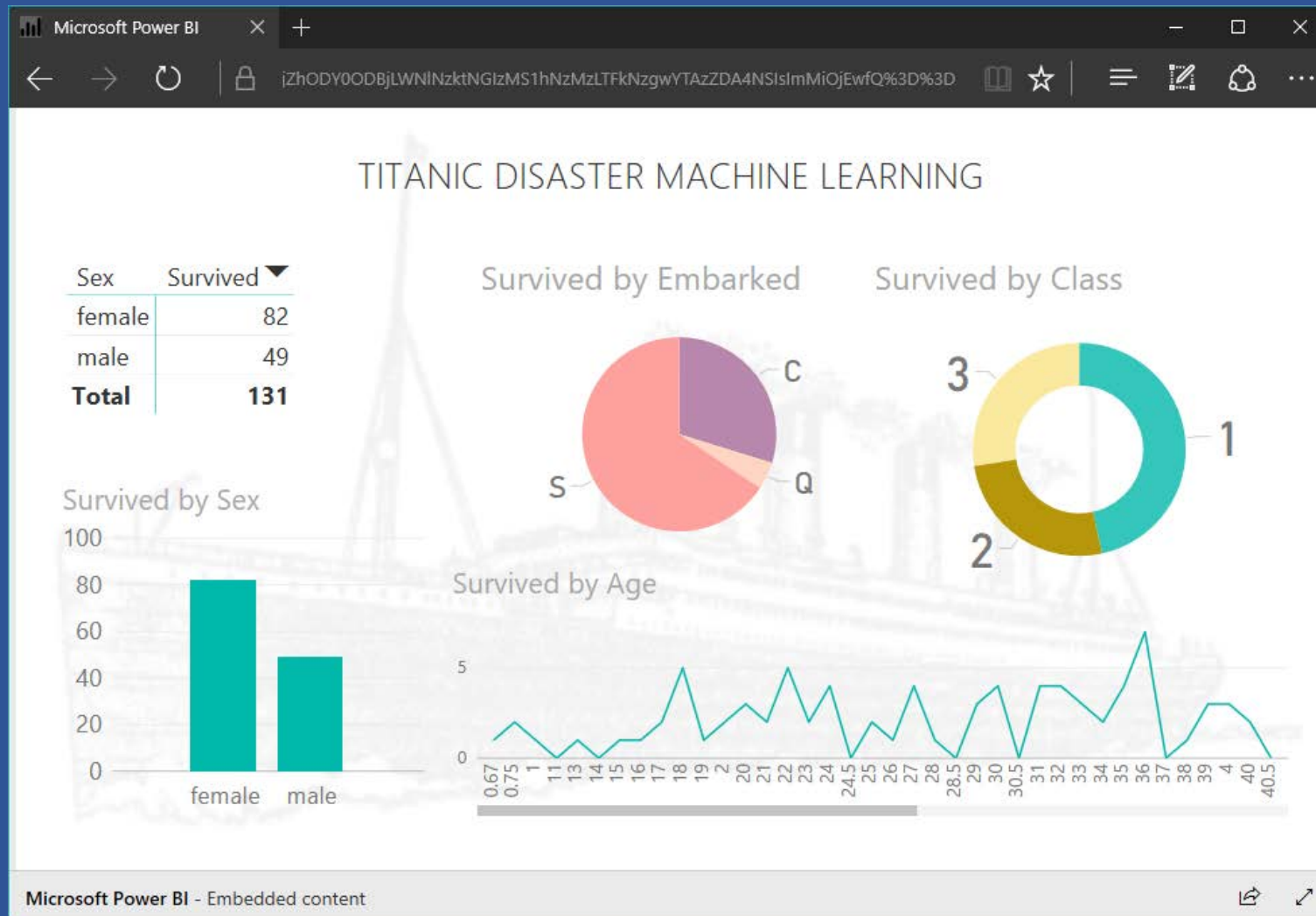
Power BI and ML

In this session

- Create and publish ML BI Report
- Get Dataset from GitHub
- Import or Connect to Data
- Get dataset from OneDrive
- Connect to dataset
- Create Report Title
- Add summarize matrix
- Add Column chart
- Add Pie chart
- Add Line chart
- Add Donut chart
- Add report background
- Publish Report

Power BI and ML

Create and publish ML BI Report



Power BI and ML

Get Dataset from GitHub

1. Go to <https://github.com/laploy/ML>
2. right click at [TitanicBI.csv](#)/save link as...
3. save file to **ML folder** created from previous session

Repository for Student of Microsoft Azure Machine Learning Course www.laploy.com

9 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

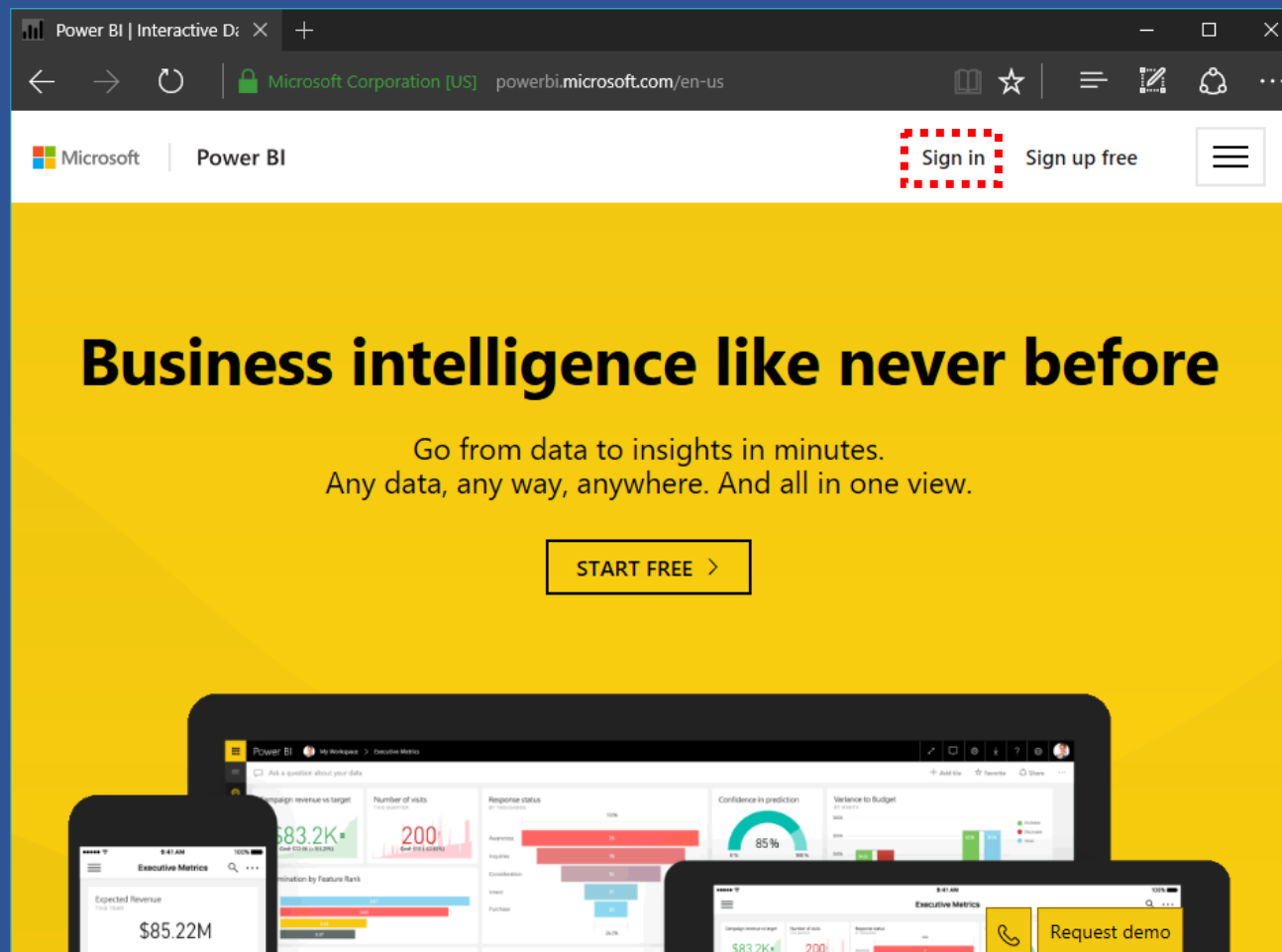
laploy committed on GitHub Add files via upload Latest commit 851d203 8 minutes ago

Missing R Script.zip	Add files via upload	3 days ago
Python introduction code.zip	Add files via upload	3 days ago
R intro.R	Add files via upload	3 days ago
README.md	Update README.md	3 days ago
TitanicBI.csv	Add files via upload	8 minutes ago
TitanicData.csv	Add files via upload	3 days ago
adult col R Script.txt	Add files via upload	3 days ago

Power BI and ML

Go to Power BI home

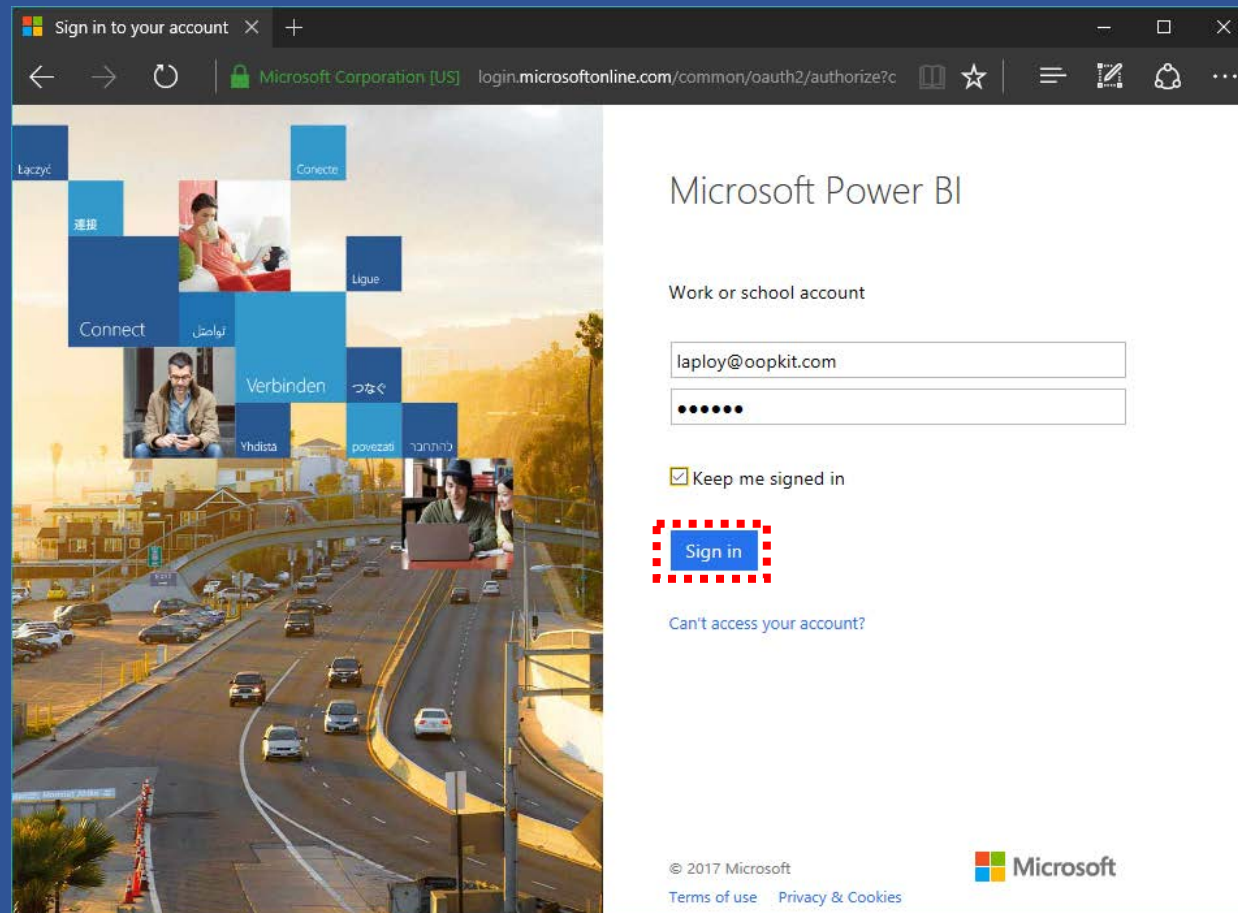
<https://powerbi.microsoft.com/en-us>



Power BI and ML

Login to Power BI

Login with credential created in the last session



Power BI and ML

Import or Connect to Data

Click Get Data / Import or Connect to Data / Files

Get Data

Need more guidance? [Try this tutorial](#) or [watch a video](#)

Microsoft AppSource

My organization

Browse content packs that other people in your organization have published.

Get ↗

Services

Choose content packs from online services that you use.

Get ↗

Import or Connect to Data

Files

Bring in your reports, workbooks, or data from Excel, Power BI Desktop or CSV files.

Get ↗

Databases

Connect to live data in Azure SQL Database and more.

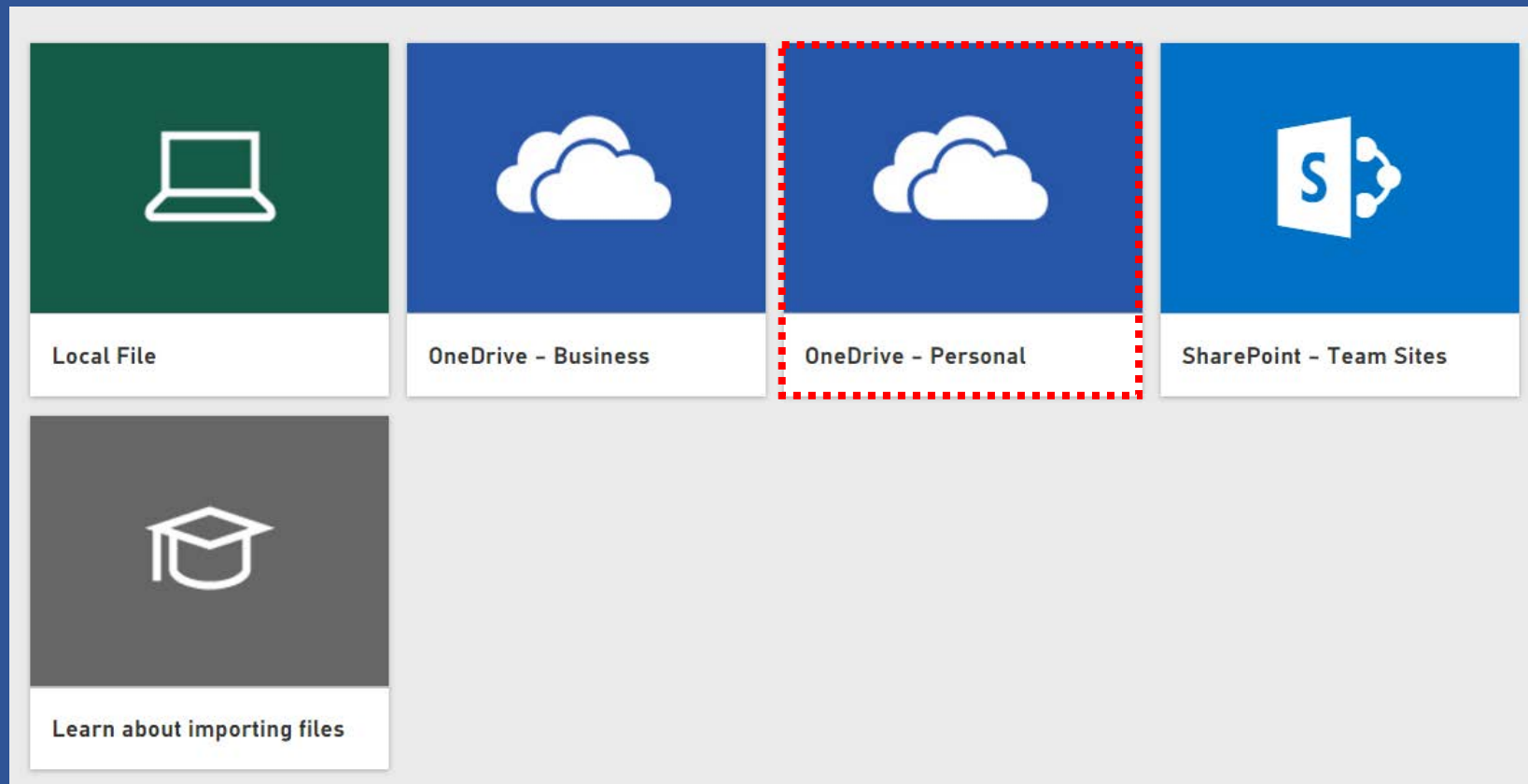
Get ↗

[Samples](#) [Solution Templates](#) [Partner Showcase](#)

Power BI and ML

Get dataset from OneDrive

Click OneDrive - Personal




Power BI and ML

Connect to dataset

Select file **TitanicBI.csv** in ML folder in OneDrive










Click **Connect**

OneDrive - Personal

 Laploy V. Angkul
laploy@hotmail.com Sign out

Connect ↗

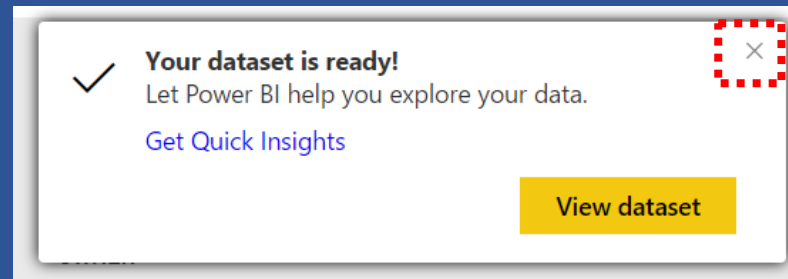
Files > ML

 adult100n.csv	16 days ago	0.03KB
 adult100n.csv	18 days ago	5.77KB
 adultf.csv	a month ago	3.67MB
 adultfh.csv	18 days ago	0.15KB
 missing_values.csv	16 days ago	0.45KB
 studen.csv	a day ago	0.08KB
 Titanic.csv	12 days ago	59.76KB
 TitanicBI.csv	a day ago	8.67KB
 TitanicTest1.csv	a day ago	8.67KB

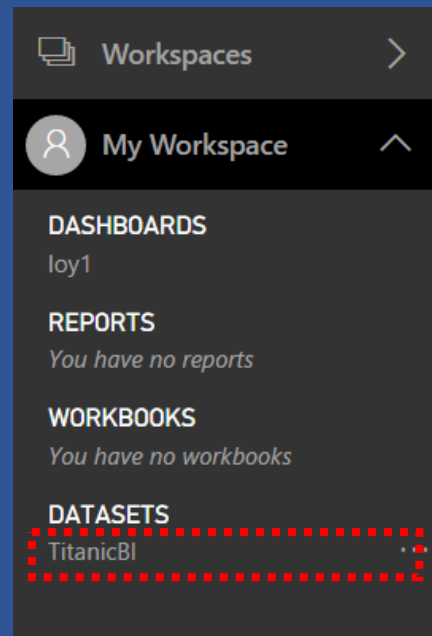
Power BI and ML

Get data connection confirmation

Click **x** to close the confirmation dialog box



Click **TitanicBI** under **DATASETS**

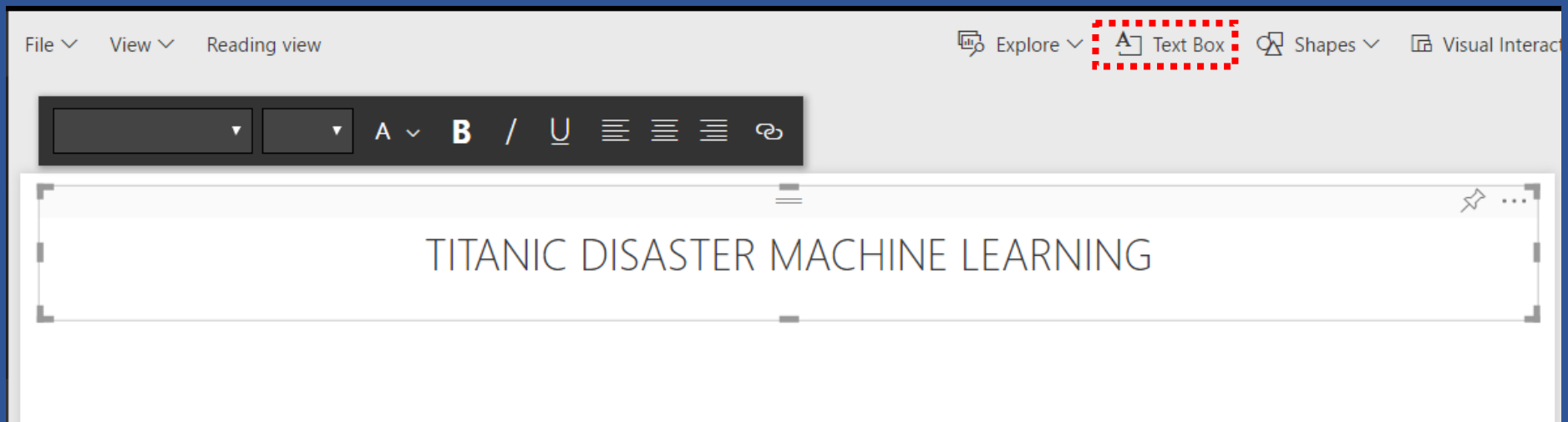


Power BI and ML

Create Report Title

Create Report Title

- Click Text box
- Move text box to top
- Make text box width == report width
- Enter text TITANIC DISASTER MACHINE LEARNING
- Change text size to 36



Power BI and ML

Add summarize matrix

Add summarize matrix

1. Click **Matrix** in Visualizations
2. Drag field **Sex** to Rows
3. Drag field **Survived** to Values
4. Change Matrix font size
5. Move to shown position

Sex	Survived
female	82
male	49
Total	131

TITANIC DISASTER MACHINE LEARNING	
Sex	Survived
female	82
male	49
Total	131

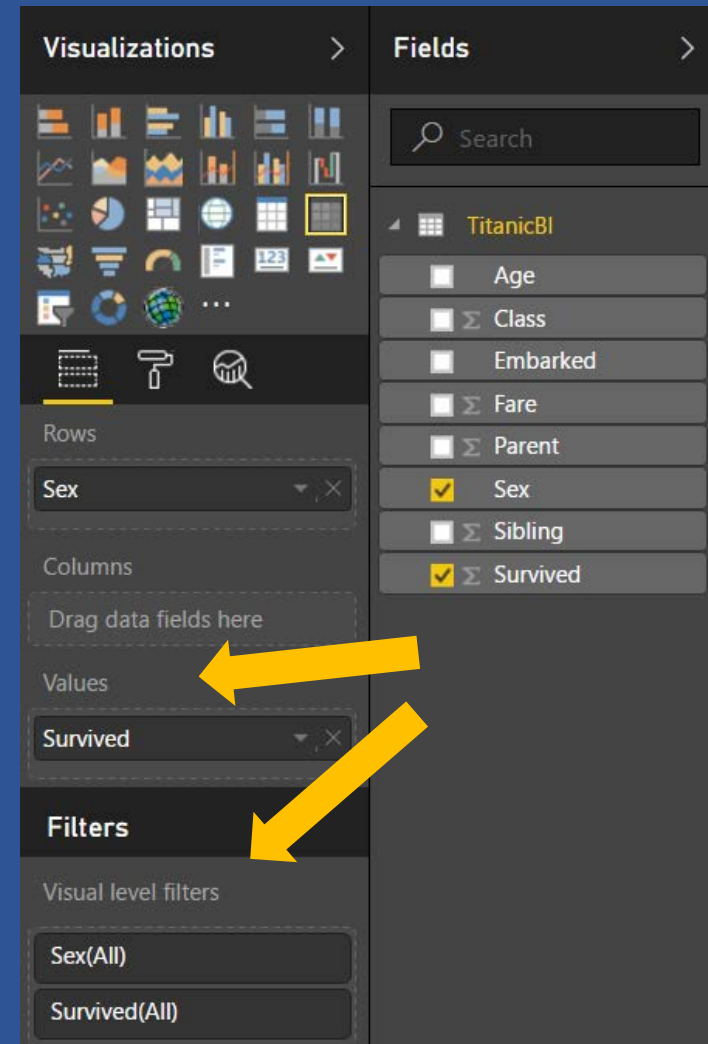
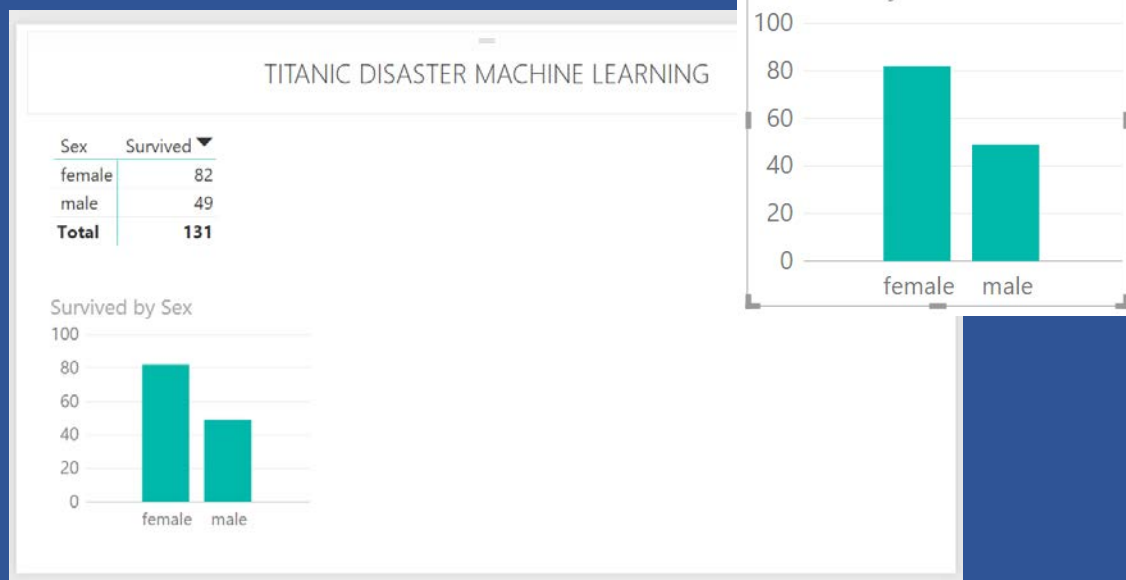
The screenshot shows the Power BI interface with the 'TitanicBI' dataset loaded. In the 'Fields' pane on the right, the 'Sex' and 'Survived' fields are selected. In the 'Visualizations' pane on the left, the 'Matrix' visualization is chosen, and 'Sex' is placed in the 'Rows' field and 'Survived' is placed in the 'Values' field. Two yellow arrows indicate the drag-and-drop actions from the Fields pane to the Visualizations pane.

Power BI and ML

Add Column chart

Add summarize matrix

1. Click **Column chart** in Visualizations
2. Drag field **sex** to Rows
3. Drag field **Survived** to Values
4. Change X, Y, Title font size
5. Move to shown position

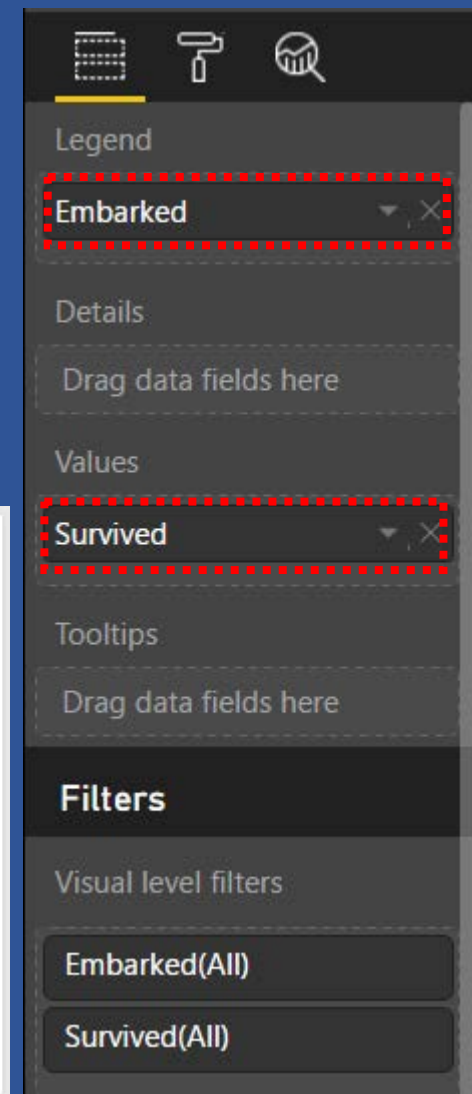
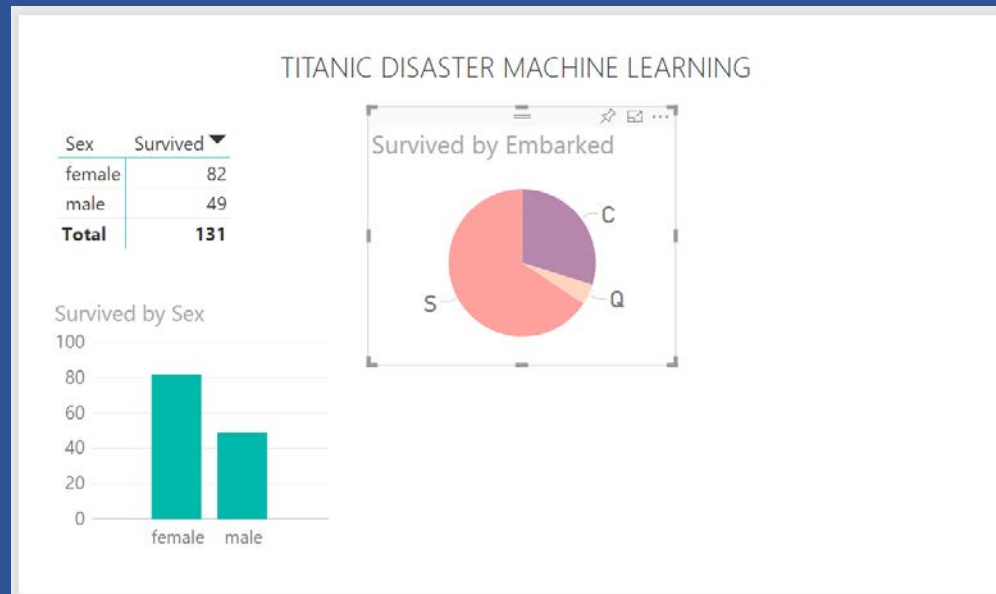


Power BI and ML

Add Pie chart

Add summarize matrix

1. Click **Pie chart** in Visualizations
2. Drag field **Embarked** to Legend
3. Drag field **Survived** to Values
4. Change Legend and Title font size
5. Move to shown position

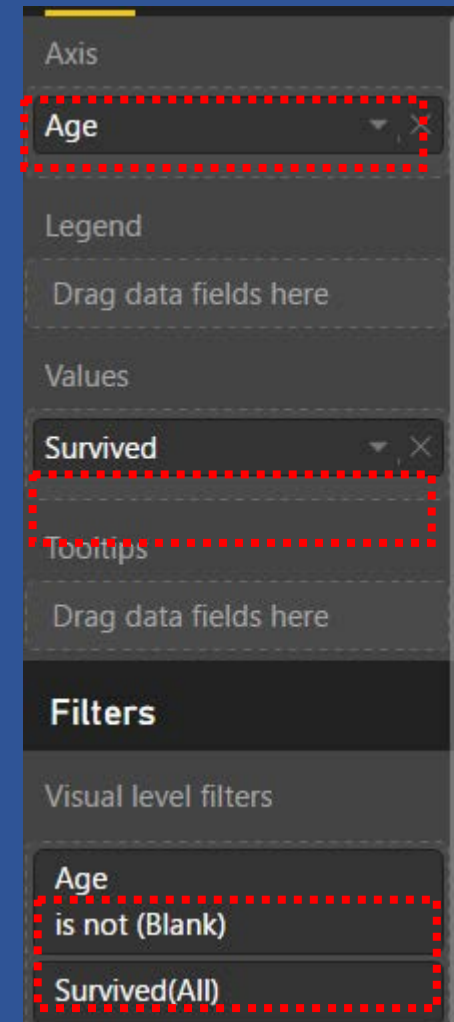
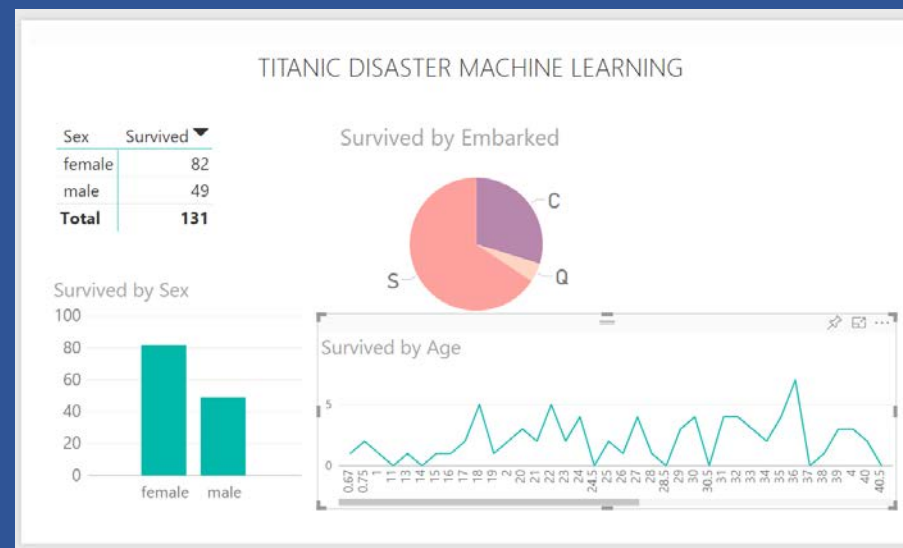


Power BI and ML

Add Line chart

Add summarize matrix

1. Click **Line chart** in Visualizations
2. Drag field **Age** to Axis
3. Drag field **Survived** to Values
4. Filter blank from Age
5. Change X,Y and Title font size
6. Move to shown position

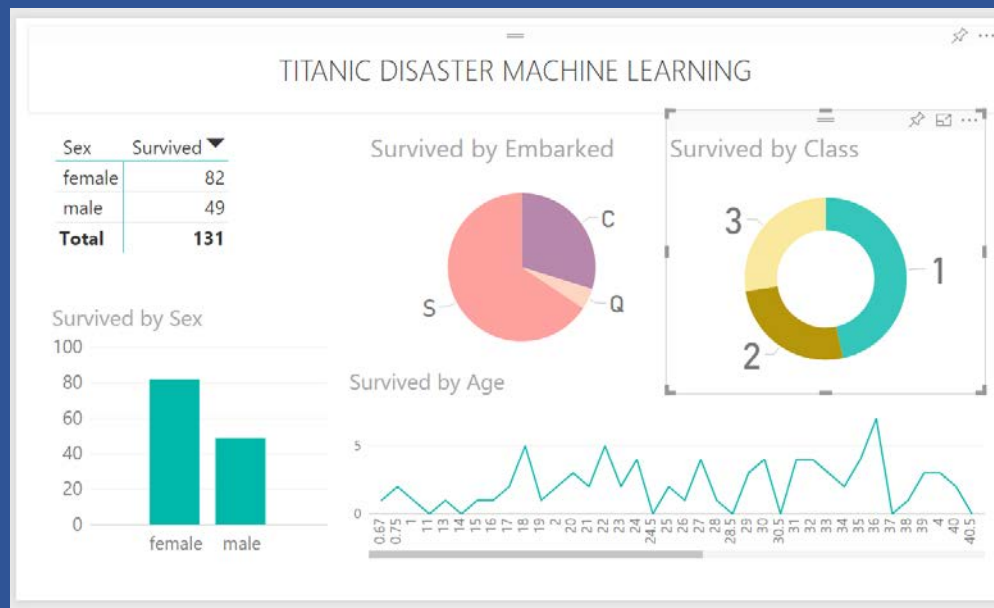


Power BI and ML

Add Donut chart

Add summarize matrix

1. Click **Line chart** in Visualizations
2. Drag field **Class** to Legend
3. Drag field **Survived** to Values
4. Change font size
5. Move to shown position



Legend

Class

Details

Drag data fields here

Values

Survived

Tooltips

Drag data fields here

Filters

Visual level filters

Class(All)

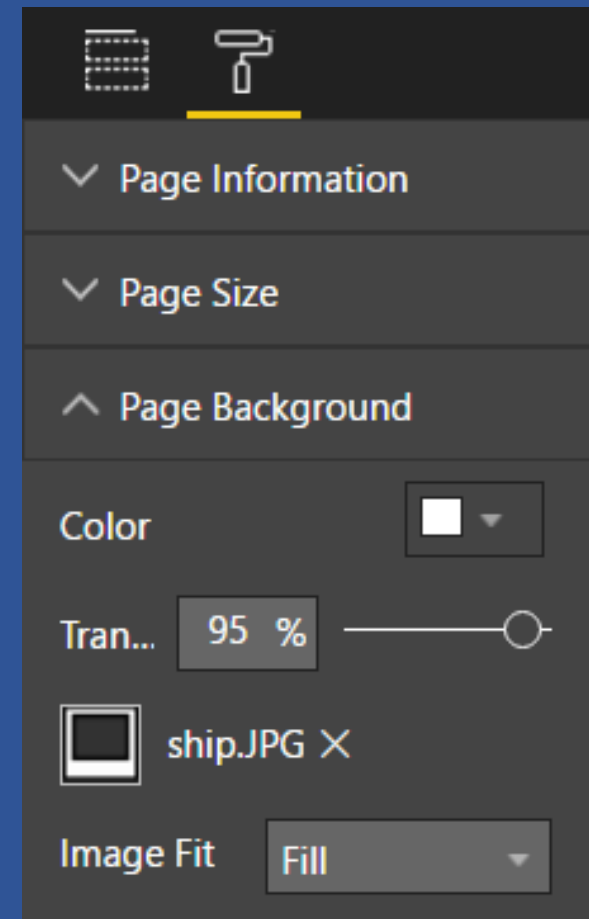
Survived(All)

Power BI and ML

Add report background

Add report background

- Down load image from
- <https://github.com/laploy/ML/blob/master/ship.JPG>
- Click report blank area
- Click format button
- Click Page Background
- Add picture
- Set Transparent to 95%
- Image fit = Fit

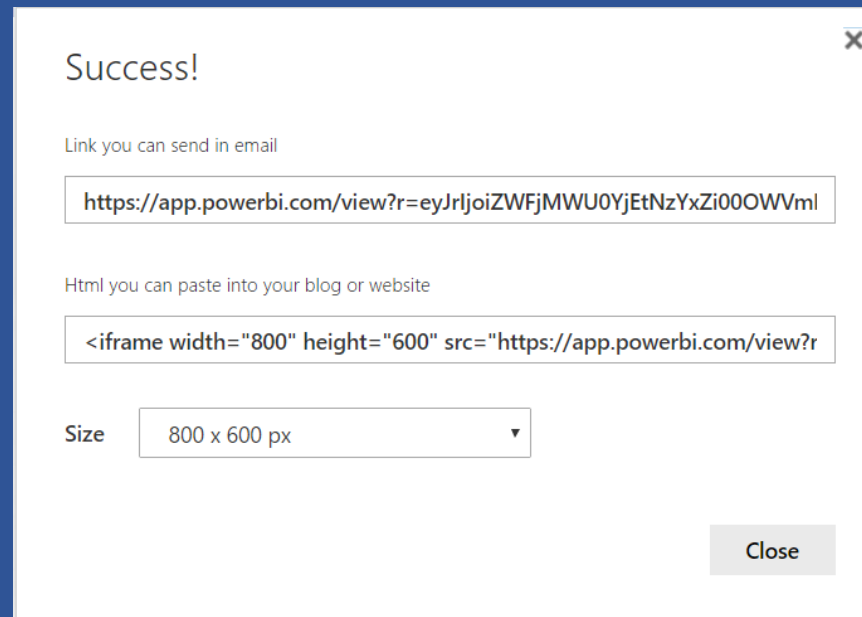


Power BI and ML

Publish Report

Publish Report

- Click File/Save report: name = **mlreport1**
- Click File/Publish to web
- Click agree
- Copy link and paste into browser to view report



Power BI and ML

More information

Free eBook: Introducing Microsoft Power BI

https://blogs.msdn.microsoft.com/microsoft_press/2016/06/16/free-ebook-introducing-microsoft-power-bi/

