Visualize data with QuickSight

Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a powerful service proposed by AWS in order to analyse data and produce beautiful visualization and dashboards.

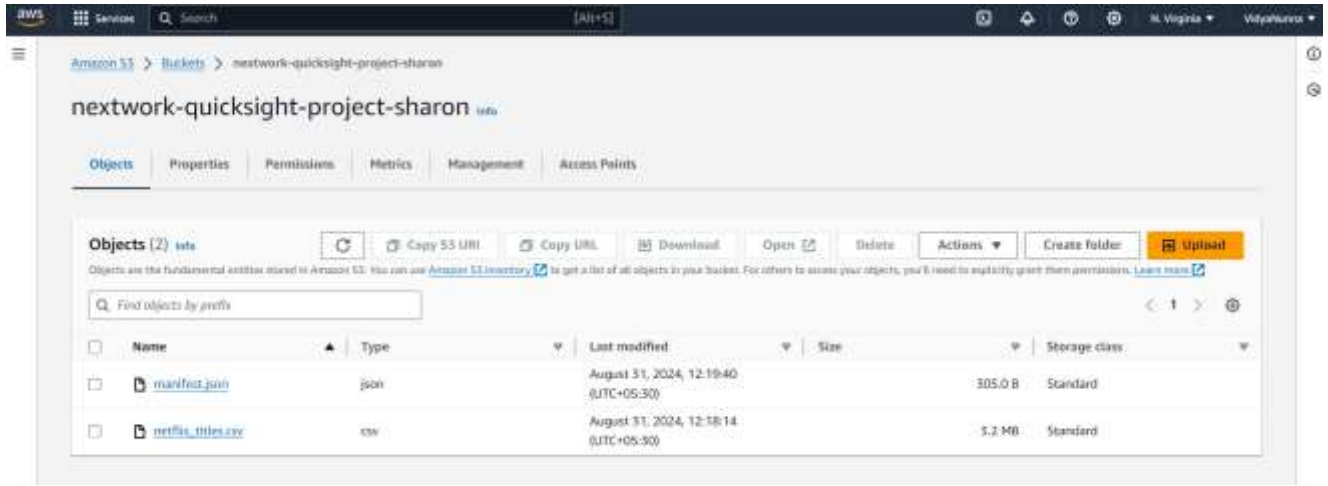
How I used Amazon QuickSight in this project?

I will use Amazon QuickSight when there is a need to analyze data, either by creating a QuickSight account and connecting it directly to a database, or fetch the data from a database and store it in a S3 bucket alongside with the manifest file.

Upload project files into S3

S3 is used in this project to store two files, which are manifest.json, and netflix_titles.csv.

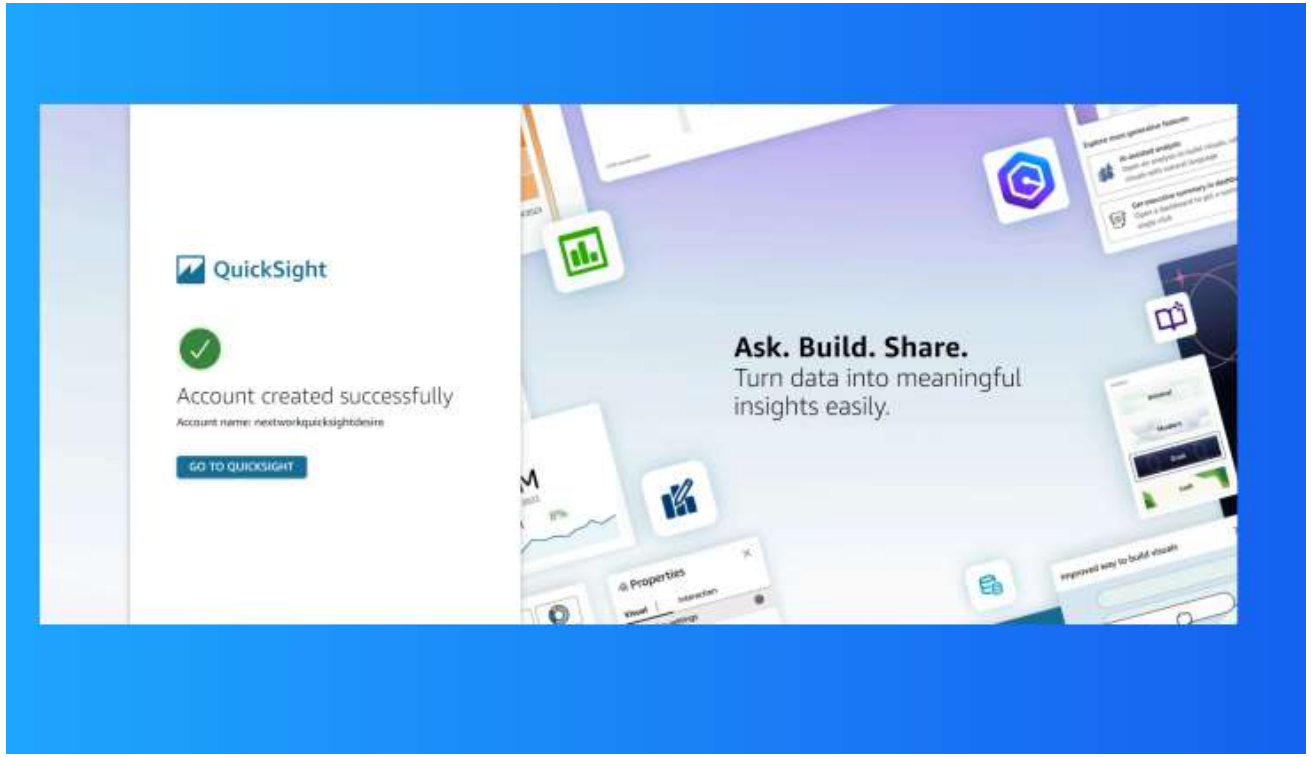
I edited the manifest.json file by replacing the URI information by the one in my S3 bucket. It’s important to edit this file because it will point to the file store into my S3 bucket.



Creat QuickSight account

Creating a QuickSight account cost money, but it comes with a free trial in the Entreprise tier.

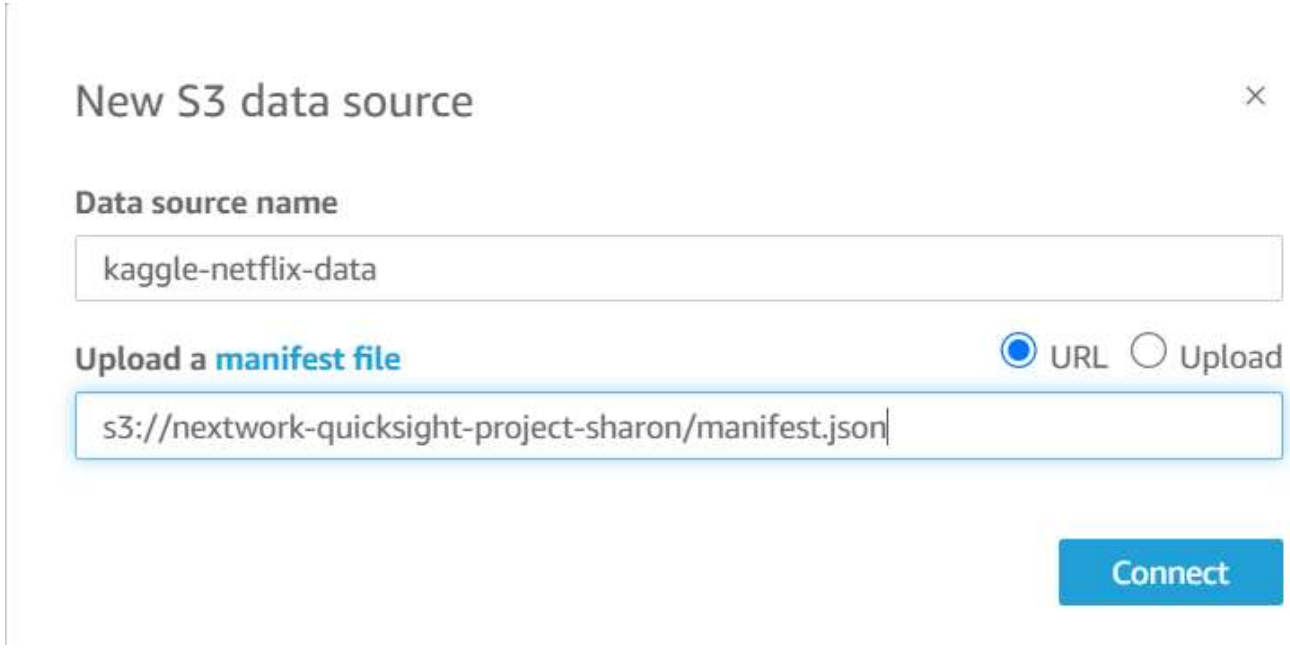
Creating an account took me about a minute



Download the Dataset

I connected the S3 bucket to QuickSight by visiting the datasets page that I located on the left Pane.

The manifest.json file was important in this step because it contains the information which will be used by QuickSight to locate the files stored in S3, and also understand how the data is organized and formated

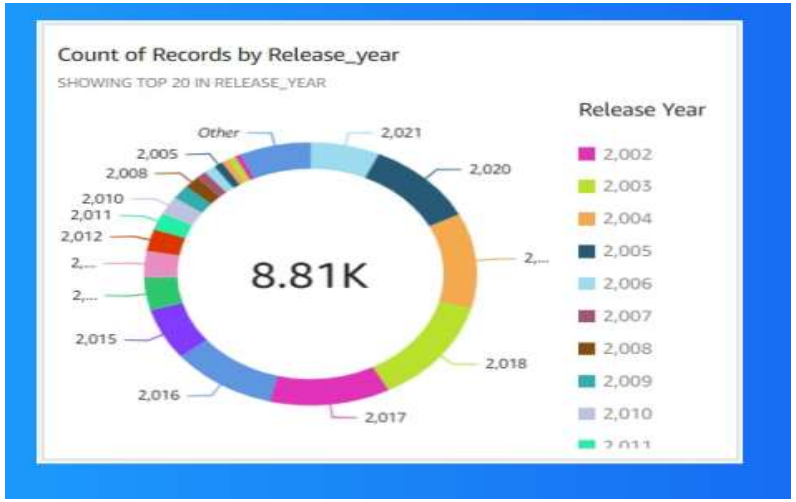


My first visualization

To create visualizations on QuickSight, I drag and drop the the field I need in the AutoGraph area, and in the Visuals Pane, I can move the field need in the correct dimension (Y Axis, Value, and Group/Color).

The chart/graph shown here is a breakdown of a count of movies and tv shows based on the released year in a donut chart format.

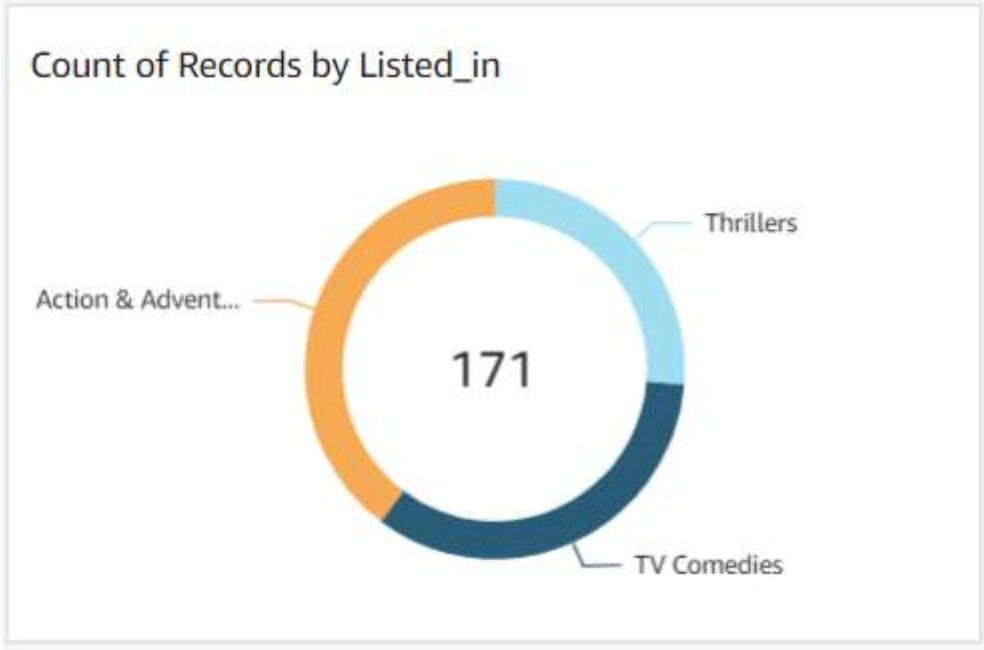
I created this graph by dragging and dropping the release_year field in the YAXIS, and then change the chart by clicking on "CHANGE VISUAL TYPE" in the Visuals Pane, and selecting donut chart.



Using filters

Filters are useful for the reason that they enable us to get only a portion of data needed.

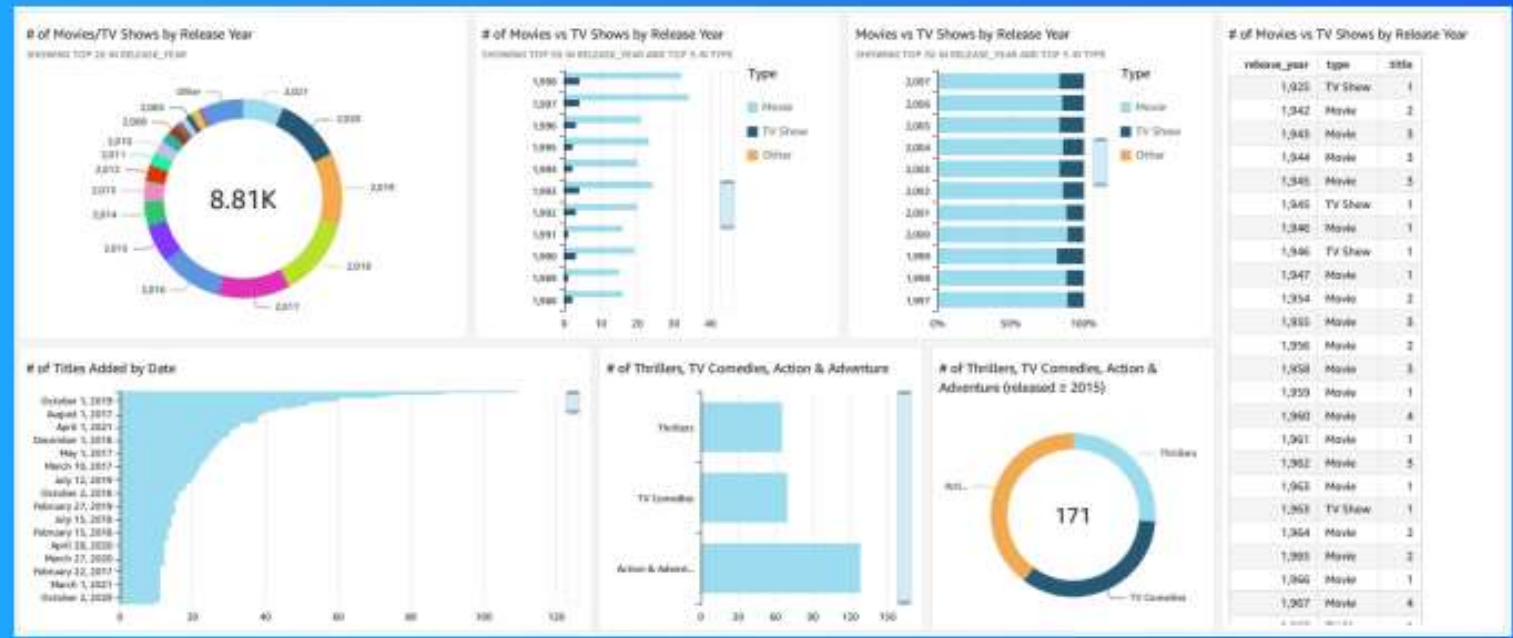
This visualization is a breakdown of a count of movies and tv shows released starting in 2015 and in the categories of "Action & Adventures", "TV Comedies", and "Thrillers". Here I added a filter by "listed_in" and "release_year".



Setting up a dashboard

As a finishing touch, I have rearranged my graphs and chart and also gave them a descriptive title for a very nice and clear look easy to understand.

Did you know you could export your dashboard as PDFs too? I did this by clicking on the export button located at the top right corner, and downloaded the file after it has been generated.


# of Movies/TV Shows by Release Year
8.81K
# of Movies vs TV Shows by Release Year
Type
Movie
TV Show
Other
Movies vs TV Shows by Release Year
Type
Movie
TV Show
Other
# of Movies vs TV Shows by Release Year
release_year type title
1,925 TV Show 1
1,942 Movie 2
1,943 Movie 3
1,944 Movie 3
1,945 Movie 3
1,945 TV Show 1
1,946 Movie 1
1,946 TV Show 1
1,947 Movie 1
1,954 Movie 2
1,955 Movie 2
1,956 Movie 2
1,958 Movie 3
1,959 Movie 1
1,960 Movie 4
1,961 Movie 1
1,962 Movie 5
1,963 Movie 1
1,963 TV Show 1
1,964 Movie 2
1,965 Movie 2
1,966 Movie 1
1,967 Movie 4
# of Titles Added by Date
# of Thrillers, TV Comedies, Action & Adventure
# of Thrillers, TV Comedies, Action & Adventure (released ≥ 2015)
171