



Visualize data with QuickSight

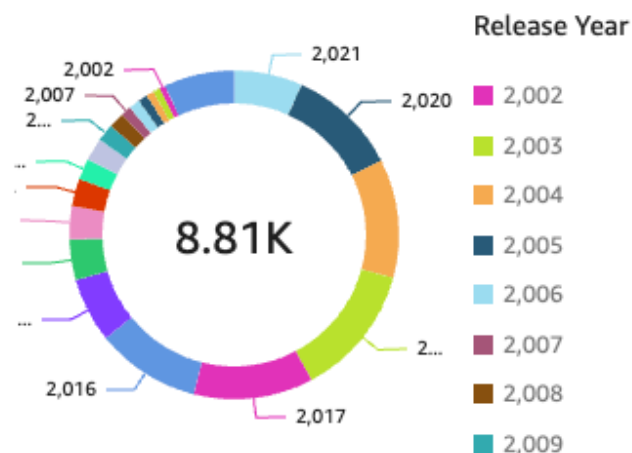


Megha Naik



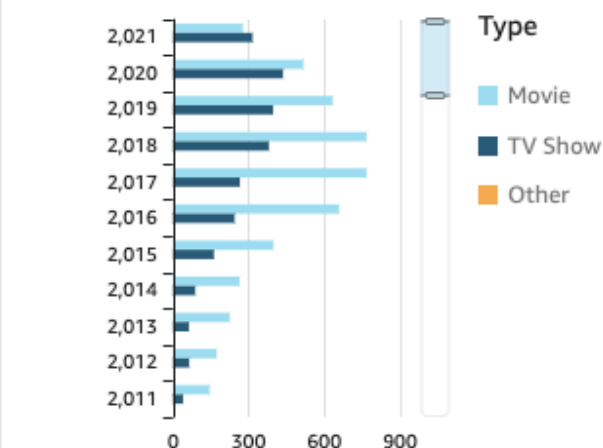
of Movies/TV Shows by Release Year

SHOWING TOP 20 IN RELEASE_YEAR



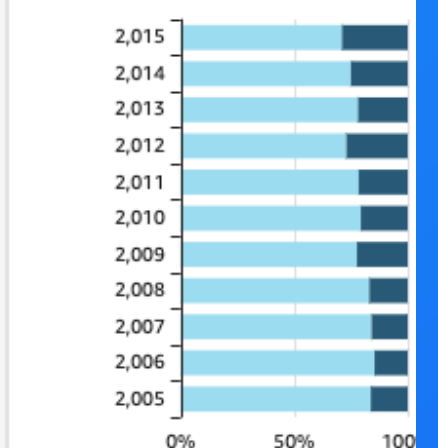
Movies vs TV Shows by Release Year

SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE

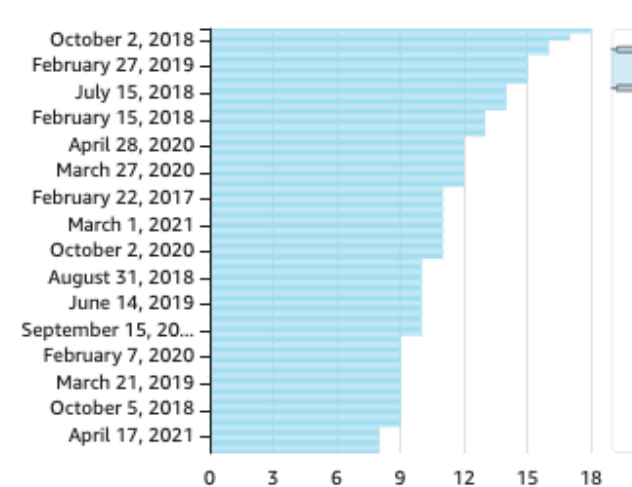


of Movies vs TV Shows by Release Year

SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE



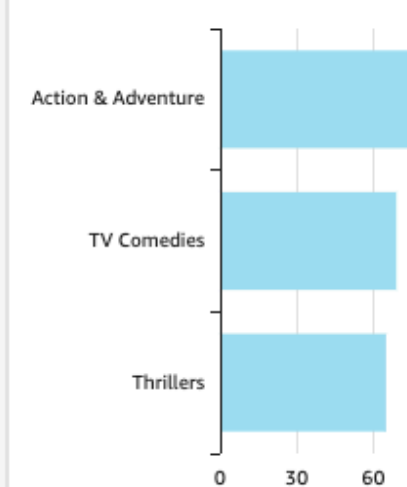
of Titles by Date



of Movies/TV Shows by Release Year

release_year	type	type
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

Count of Records by Listed_in



of Thrillers, TV Comedies, Action & Adventure



of Thrillers, TV Comedies, Action & Adventure (released ≥ 2015)





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Introducing Amazon QuickSight!

What it does & how it's useful

Amazon QuickSight is a cloud-based BI platform that allows users to analyze data and create visualizations easily.

Developers and teams use Amazon QuickSight because it turns data into insights with charts, graphs, and visuals, enabling better decision-making.

How I'm using it in today's project

I'm using Amazon QuickSight in this project to create visual dashboards by analyzing the Netflix titles dataset

This project took me...

I took two hours to complete this project along with documentation.



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Upload project files into S3

- S3 is used in this project to store two files, which are dataset and manifest.json
- I edited the manifest.json file by updating the S3 URI of my dataset. It's important to edit this file because keeping an outdated S3 URI means that manifest.json would be directing to the wrong address.

Here's my bucket with the CSV file and manifest.json!

The screenshot shows the AWS S3 console interface for a bucket named 'nextwork-quicksight-project-megha-naik'. The 'Objects' tab is selected, displaying a list of two objects. A blue arrow points to the 'Management' tab in the top navigation bar.

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	manifest.json	json	July 2, 2024, 16:06:39 (UTC-05:00)	309.0 B	Standard
<input type="checkbox"/>	netflix_titles.csv	csv	July 2, 2024, 15:54:45 (UTC-05:00)	3.2 MB	Standard



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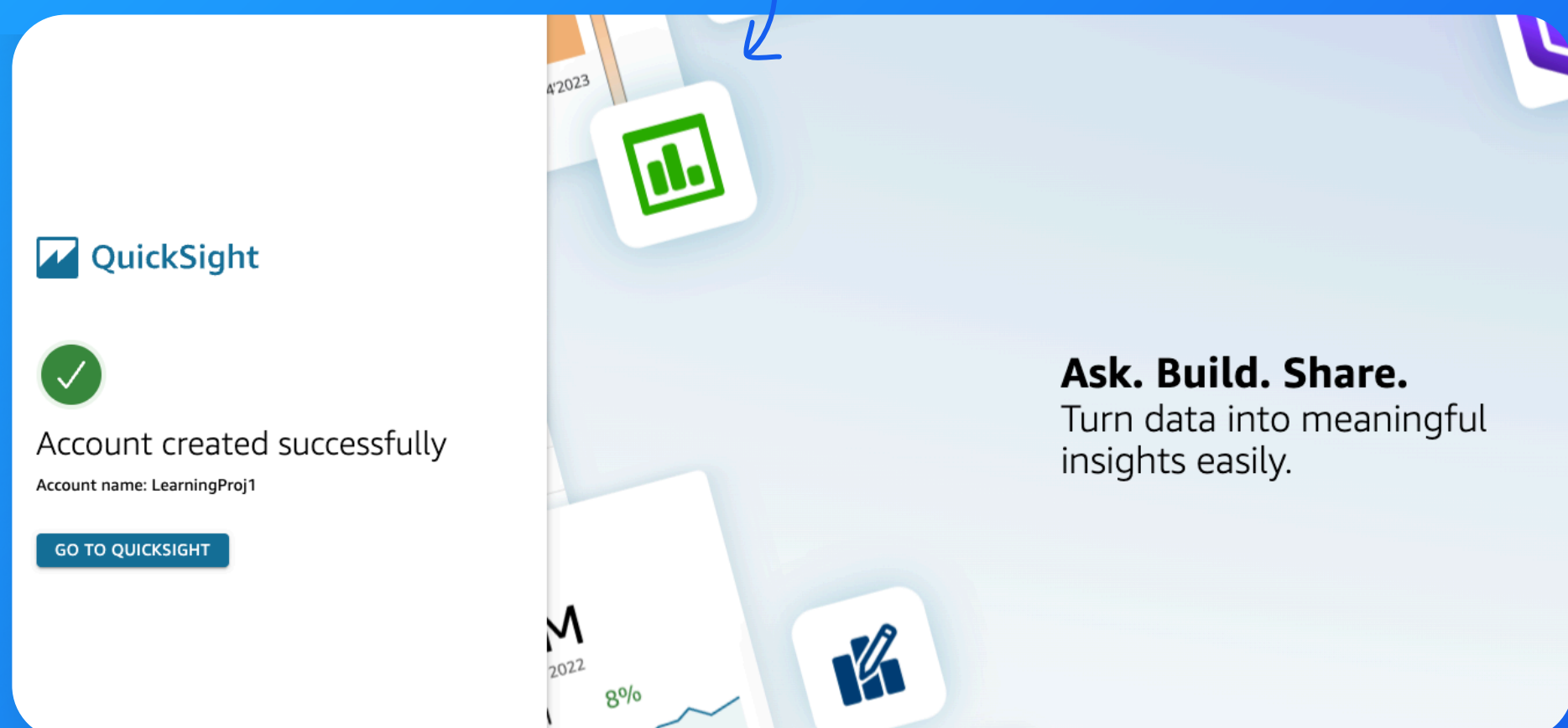
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Create QuickSight account

- It is free to make a QuickSight account(the free trial lasts for 30 days), and it took two minutes to set up the account creation- pretty fast!
- I also had to enable QuickSight's access to S3 because my dataset is stored in an S3 bucket and specific access to that bucket is required for QuickSight to process that data.

Voila! I created my QuickSight account successfully.





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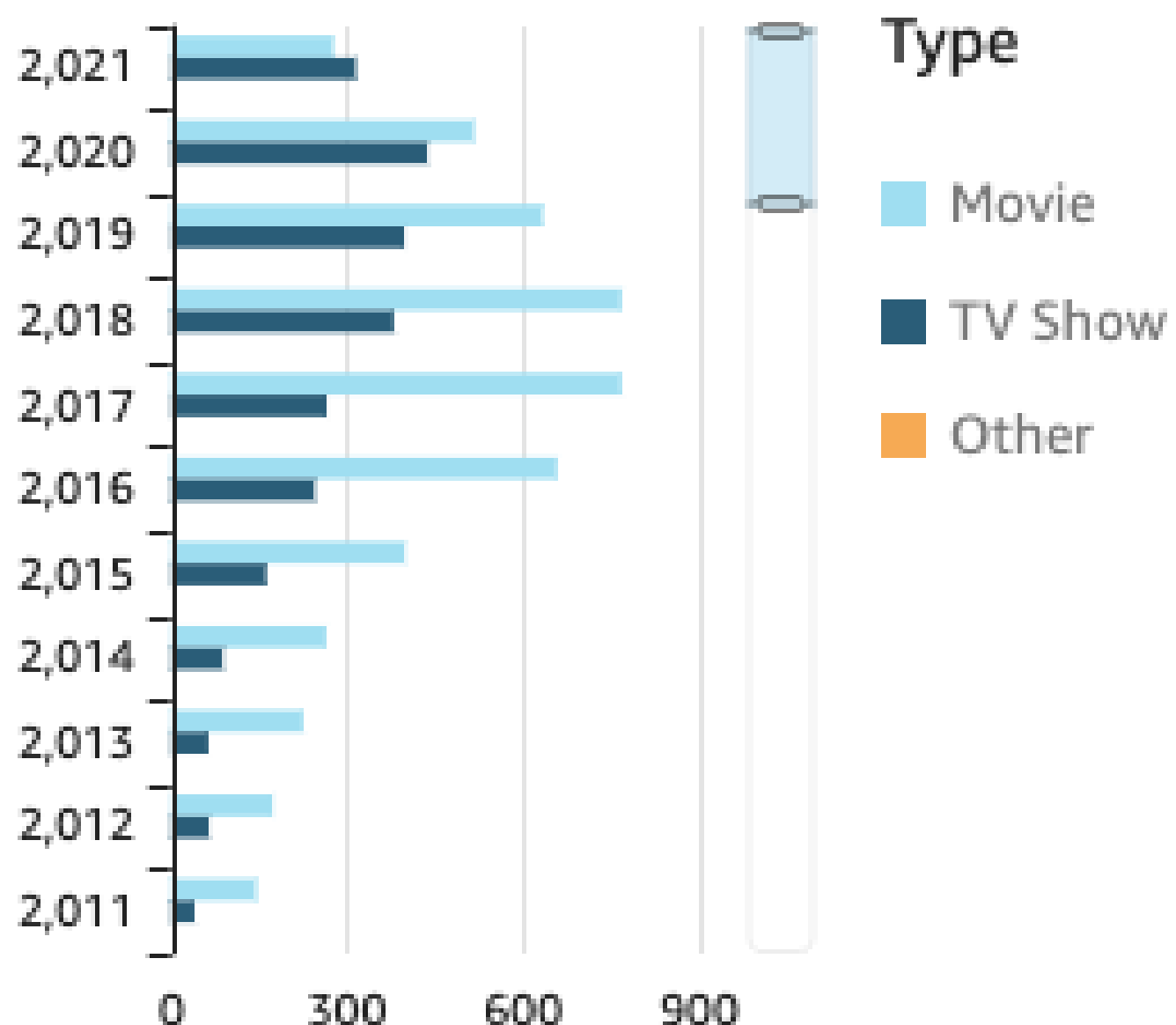
Let's make visualisations!

- To create visualisation on QuickSight, you'll have to drag relevant fields into the QuickSight dashboard's AutoGraph space.
- The chart/graph shown here is a breakdown of Movies vs TV shows for every release year.
- I created this graph by putting the release year on the y-axis and making the type(i.e. movie or tv show) the grouping variable.

One of my first visualisations.

Count of Records by Release_year and Type

SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE





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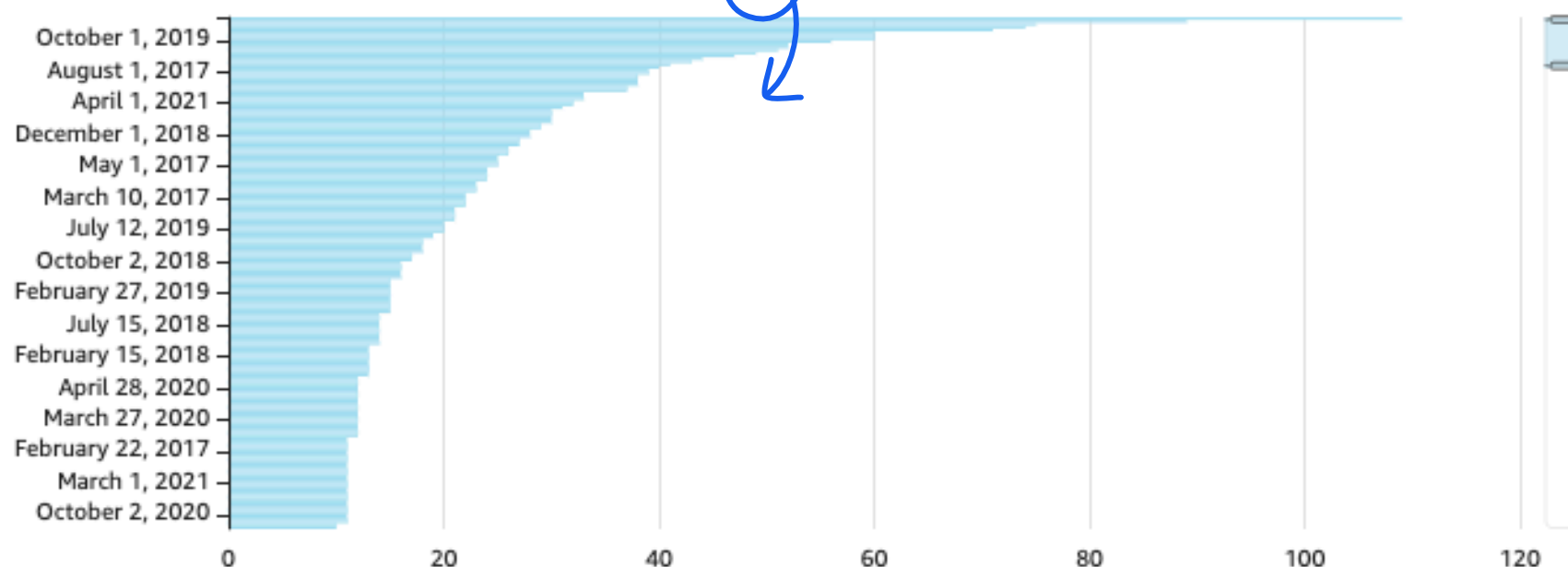
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Using filters

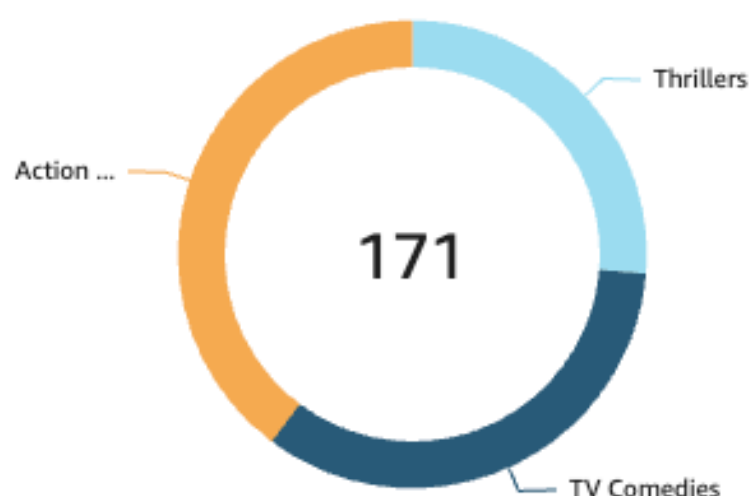
- Filters are useful for specifying the exact subset of data that you want to analyze - effectively excluding any irrelevant data.
- Here in 1st graph, I added a filter to show on what day did Netflix added the largest number of movies/TV shows to their catalogue. For the second graph, created a visualization of movies and TV shows of the three genres I specified that were released from 2015 onwards & third graph, the total count for all the years.

A visualisation set up after adding filters.

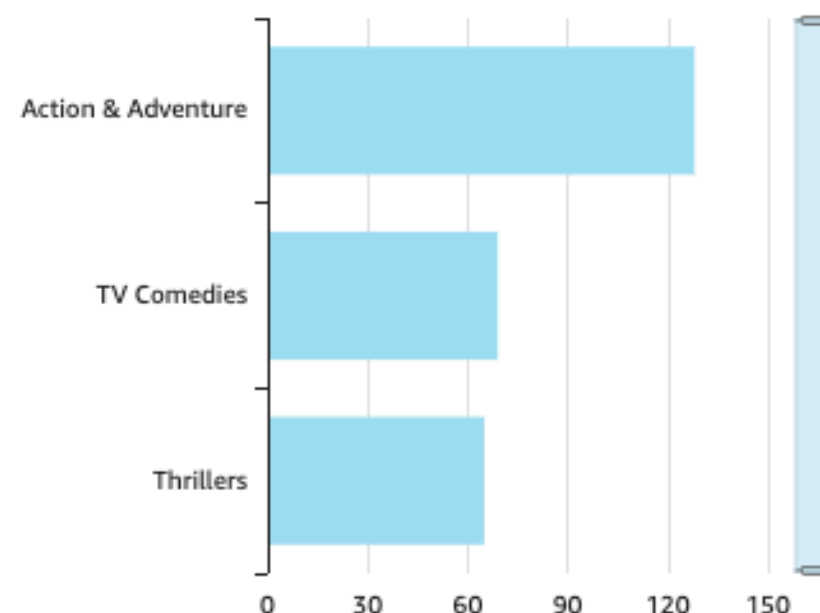
Count of Title by Date_added



Count of Records by Listed_in



Count of Records by Listed_in





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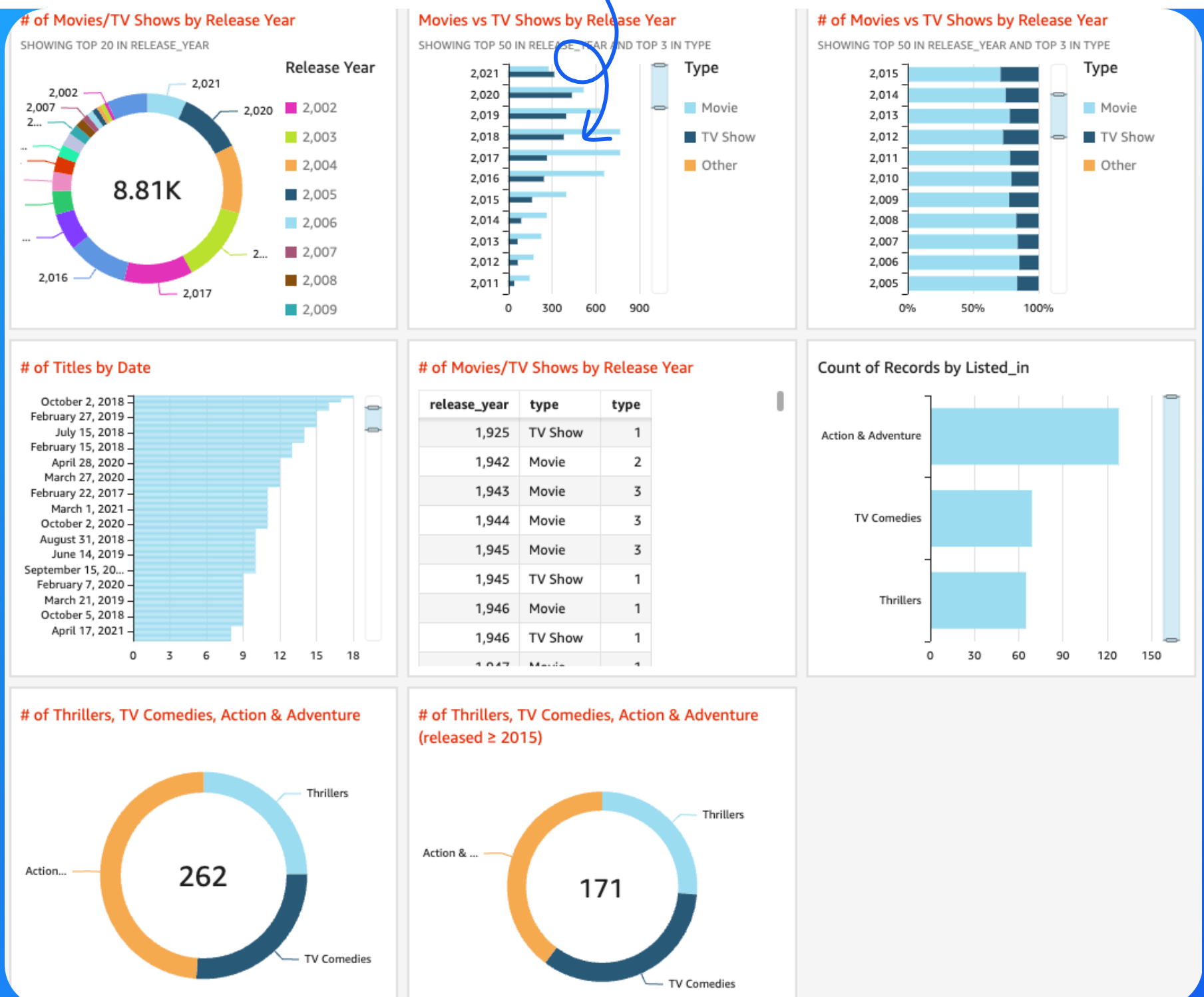
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Set up your dashboard!

- As a finishing touch, I edited the titles of my graphs so that the purpose of each chart is clear to the reader
- Did you know you could export your dashboard as PDFs too? I did this by clicking “Publish”. adding the dashboard name and selecting “Publish Dashboard”. Clicked “Export” on right top corner and “generate PDF”.

Voila! Here’s the finished dashboard!





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My key learnings

1

An S3 bucket was used in this project to upload the dataset and manifest.json files.

2

To connect the data stored in S3 with QuickSight, I had to use a manifest.json file. The manifest.json file is like a map that tells Amazon QuickSight where your data lives and how to read your data.

3

Creating visualisations on QuickSight is very easy and quick.

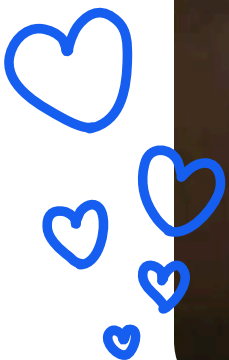
4

I was surprised by the amazing flexibility of the charts. I could resize them, and the data always adjusted perfectly for clear comparison



Everyone should be in a job they love. *yes!*

Check out community.nextwork.org for more free projects



Ask me about it

