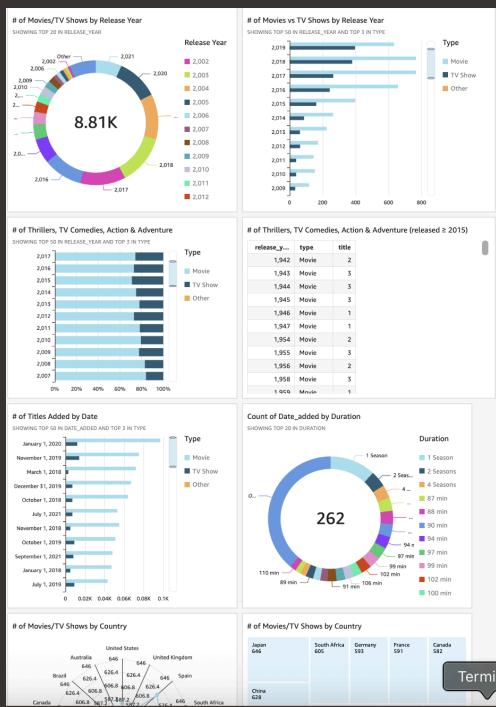




Visualize data with QuickSight

SA

Angela S



Introducing Today's Project!

In this project, I will demonstrate how to visualize data using Amazon QuickSight. I'm doing this project to learn how to visualize Netflix data and trends with Amazon S3, a dataset, and a dashboard utilizing Amazon QuickSight.

Tools and concepts

I utilized Amazon S3 and Amazon QuickSight for my project. Key concepts I learned include how to upload a dataset to an S3 bucket, create an Amazon QuickSight account, connect my dataset in the S3 bucket to QuickSight, generate various graphs and charts, and publish a dashboard filled with insights from my dataset!

Project reflection

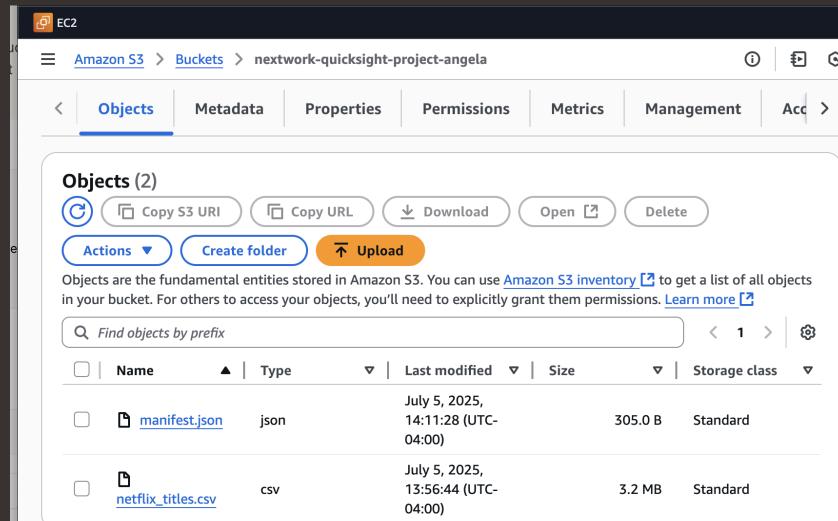
This project took me approximately an hour to complete. The most challenging part was modifying and updating the new dataset with QuickSight. It was most rewarding to see my organized datasets and charts.

After this project, I plan to work on a new AWS networking project I will start this project in the next week.

Upload project files into S3

In this project, S3 is utilized to store two files: manifest.json and netflix_titles.csv.

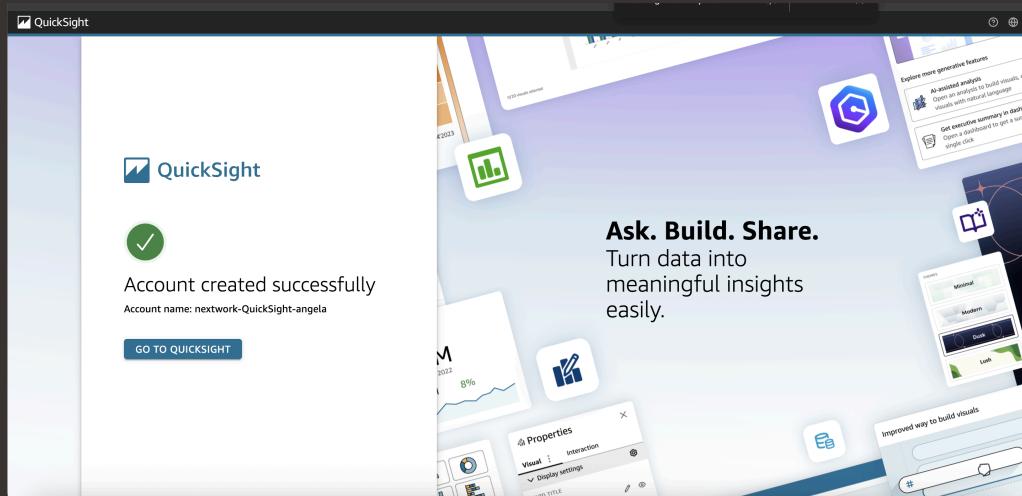
I updated the manifest.json file by changing the URL using a text editor like Vim on my local machine. Editing this file is essential because it directs to the correct dataset at the proper URL.



Create QuickSight account

Creating a QuickSight account is free if you sign up for a trial.

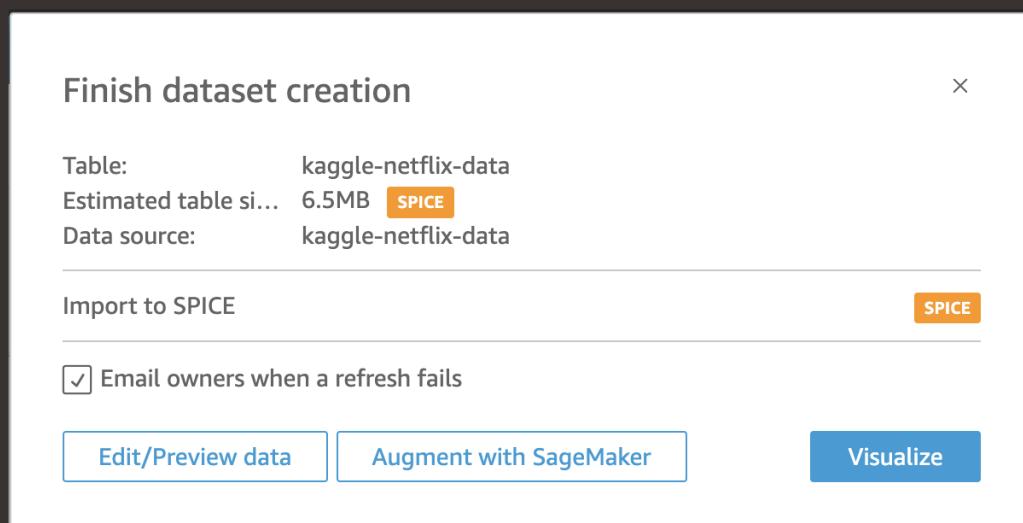
It took me a few minutes to create an account.



Download the Dataset

I connected the S3 bucket to QuickSight by accessing the manifest.json file and copying the S3 URI.

The manifest.json file was important in this step because I will use it to visualize data with QuickSight.

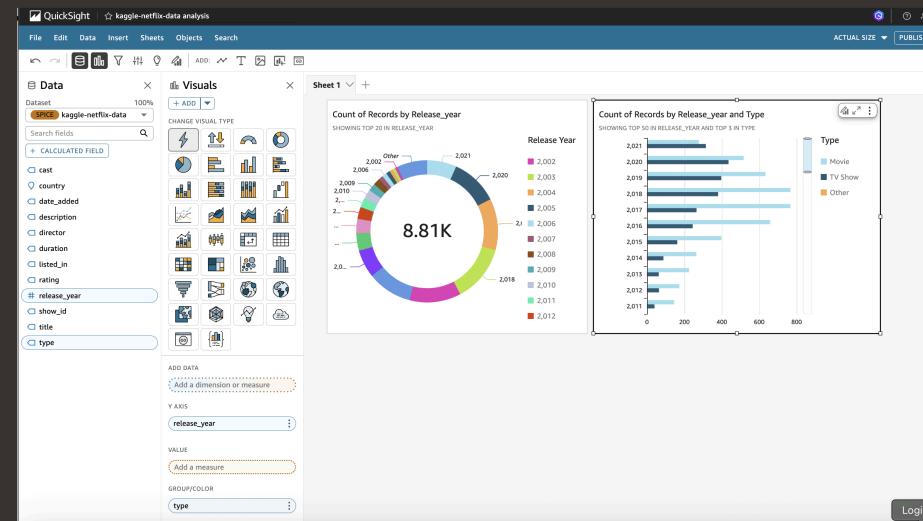


My first visualization

To create visualizations in QuickSight, I used visuals like the Donut chart and customized options by dragging the Y axis to show the new release year.

The chart/graph shown here shows a breakdown of every year's TV shows vs movies.

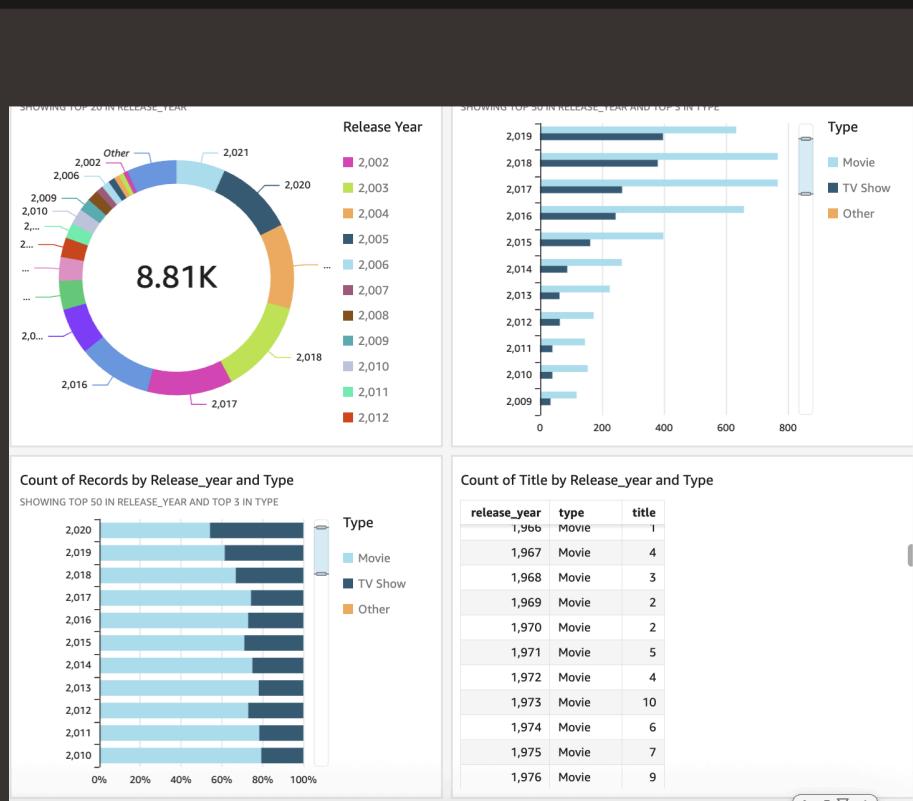
I created this graph by dragging and dropping the Donut and 'Add visuals' buttons to display the data in both donut and bar chart formats.



Using filters

Filters are helpful in customizing and visualizing data to analyze subsets of my data.

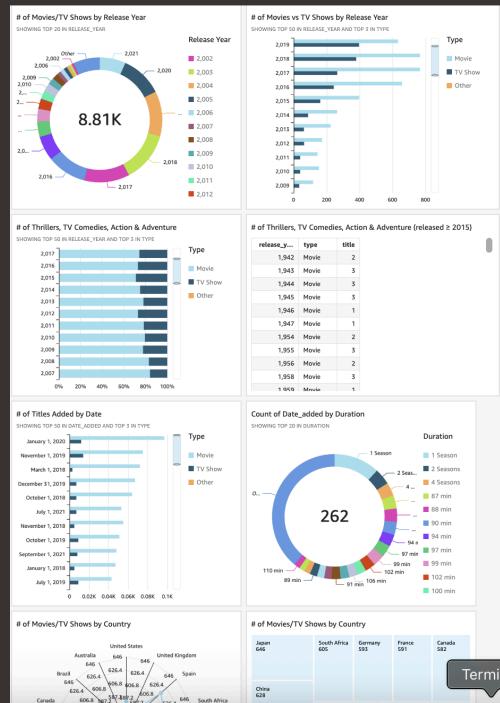
This visualization is a breakdown of customized data charts to answer specific data questions. I added a filter by pressing the filter icon to organize my visualizations in a dashboard layout.



Setting up a dashboard

As a finishing touch, I labeled each chart to help with readability so people can easily understand my charts.

Did you know that you can also export your dashboard as PDFs? I accomplished this by clicking the following buttons: publish, export, generate PDF, and download.



Refreshing source data

In this project's extension, I downloaded new data that differs from my original dataset due to the presence of empty values. Analyzing incomplete data carries the risk of misunderstandings, which can lead to the development of ineffective content and potentially result in misallocated investments for creating Netflix original content.

Once I downloaded new data, I had to update my S3 bucket because it requires the new S3 URL. I also uploaded a new manifest.json file that needed the new data set that without empty fields.

I initially couldn't see my updated data in QuickSight, so I had to edit and refresh it through QuickSight.

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