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Visualize data with QuickSight

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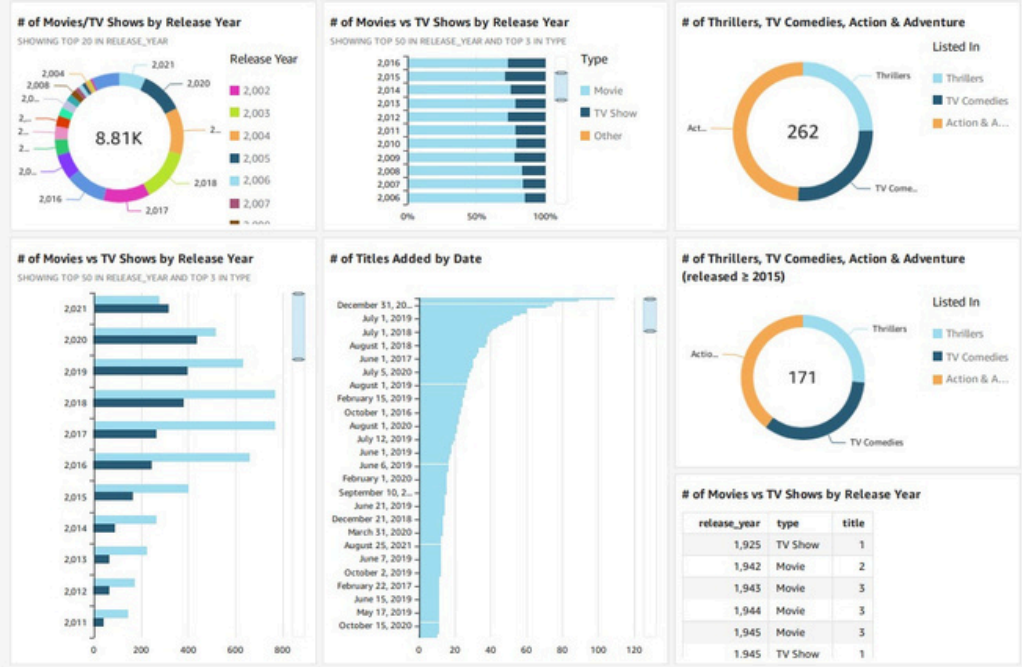


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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based business intelligence (BI) tool from Amazon. It helps us easily visualize our data by creating interactive dashboards, graphs, and reports.

How I used Amazon QuickSight in this project!

I used Amazon QuickSight to analyze a huge dataset of Netflix shows and movies to create a dashboard that extracts all the juicy insights such as:

- How has Netflix's content evolved over the years?
- Can we display the release year breakdown in a table?
- What was Netflix’s biggest day for adding content to its catalogue?
- How many titles are categorized under 'Action & Adventure', 'TV Comedies', or 'Thrillers'?
- Of the titles in these genres, how many were released in 2015 or later?


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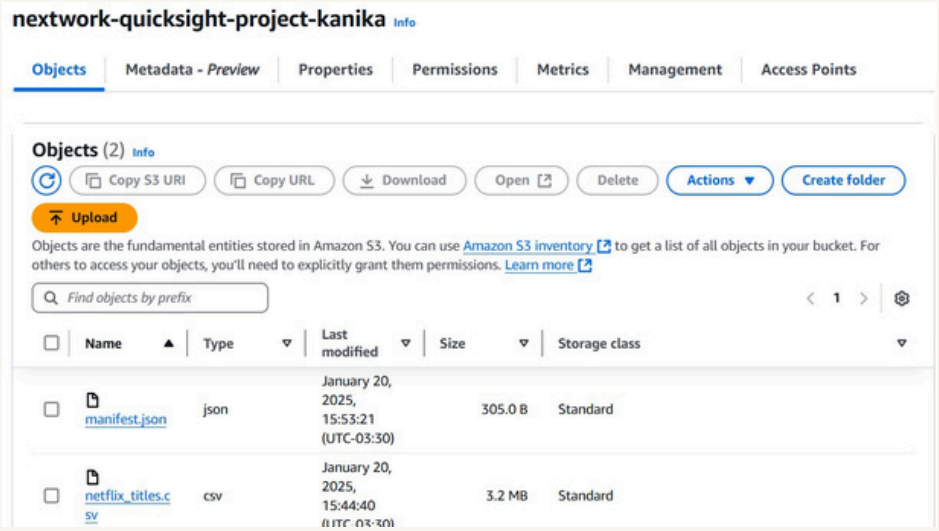
Upload project files into S3

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

I edited the manifest.json file by updating the S3 URI of my dataset. It is important to edit this file because keeping an outdated S3 URI means that manifest.json would be directing to the wrong address.



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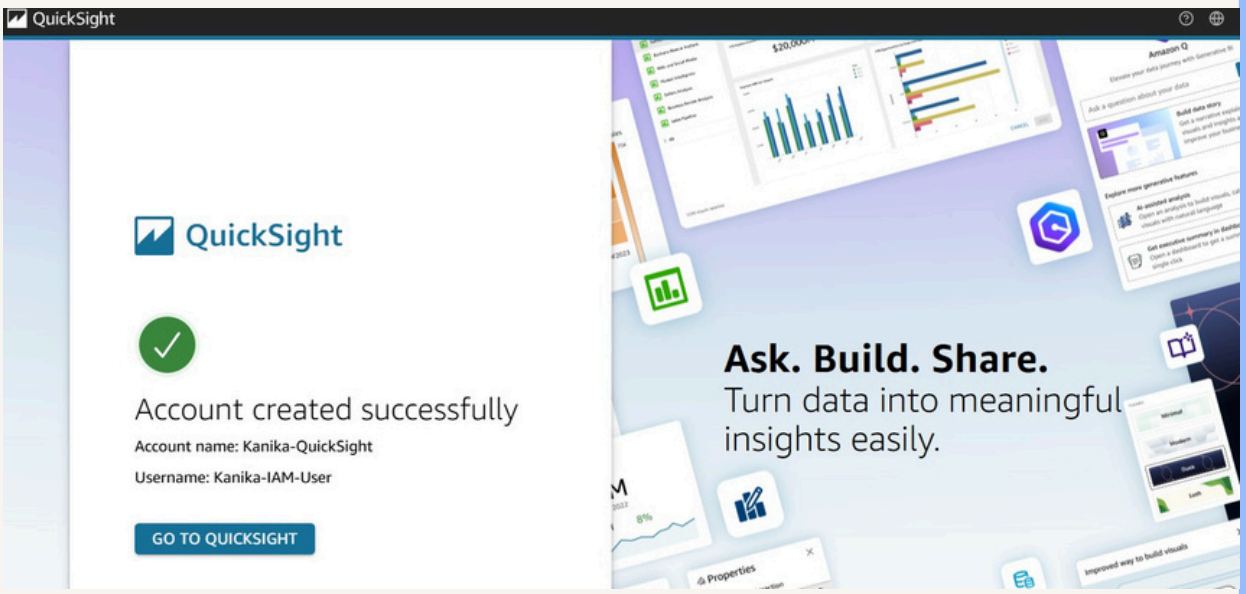
Create QuickSight account

It is free to make a QuickSight account. The free trial lasts for 30 days.

Creating an account took me 2 minutes to set up and wait for account creation. I also enabled 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 the data.

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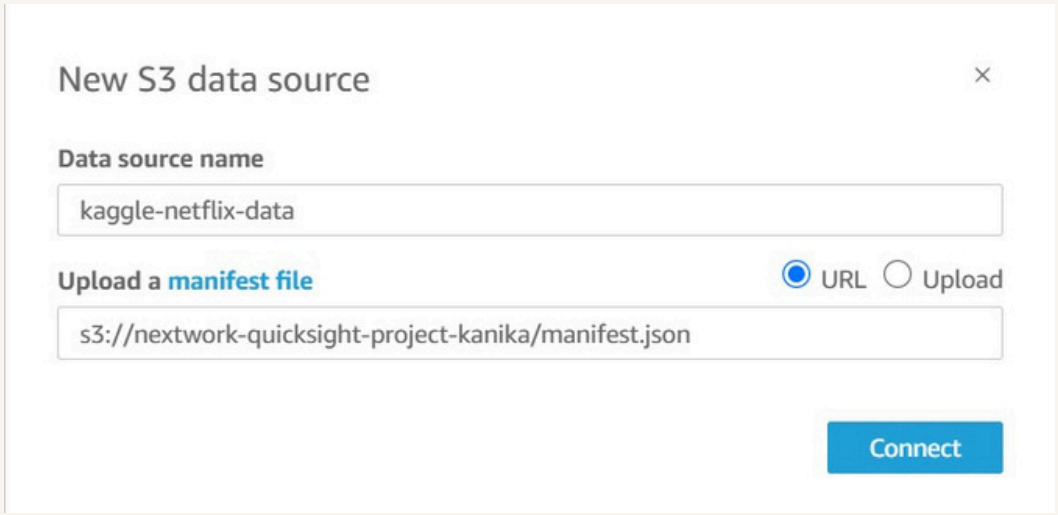
Download the Dataset

I connected the S3 bucket to QuickSight by visiting the left-hand navigation bar, selecting Datasets, and then New Datasets.

The manifest.json file was important in this step because it tells QuickSight what my dataset looks like, so QuickSight knows how to understand the data and show it in charts or graphs.



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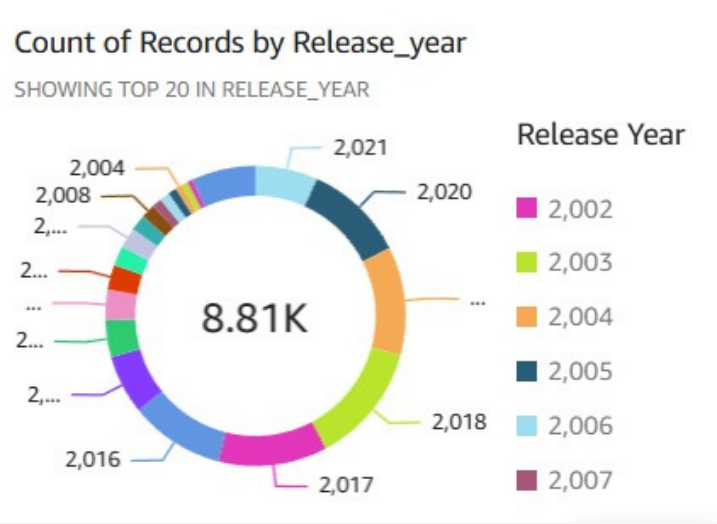
My first visualization

To create visualizations on QuickSight, I had to drag relevant fields into the QuickSight Dashboard's AutoGraph space.

The chart shown here is a donut chart created with the release year in the group variable that tells the count of records with the release year.

I created this graph by dragging and dropping the release_year in the group.



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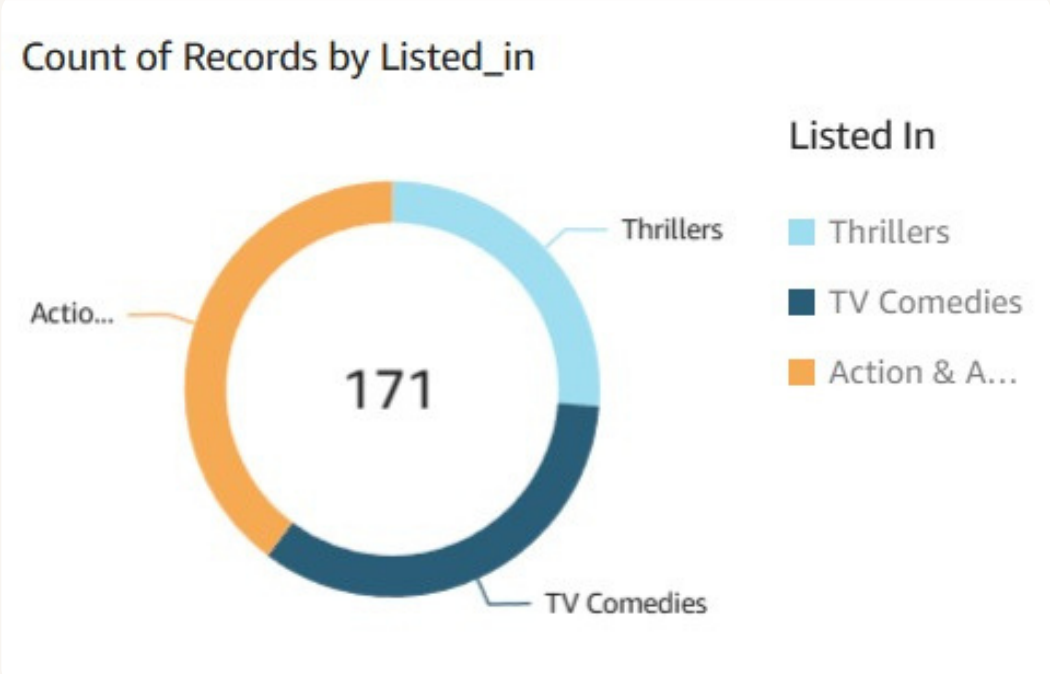
Using filters

Filters are useful for specifying the exact subset of data that we want to analyze, effectively excluding any irrelevant data.

Here, I added a filter by excluding movies and TV shows that were released before 2015. This helped me create a visualization of movies and TV shows of the three genres specified that were released from 2015 onwards.



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Setting up a dashboard

As a finishing touch, I edited the titles of my chart so that the purpose of each chart is clear to the reader.

I did this by publishing my dashboard and exporting it using the export function.

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