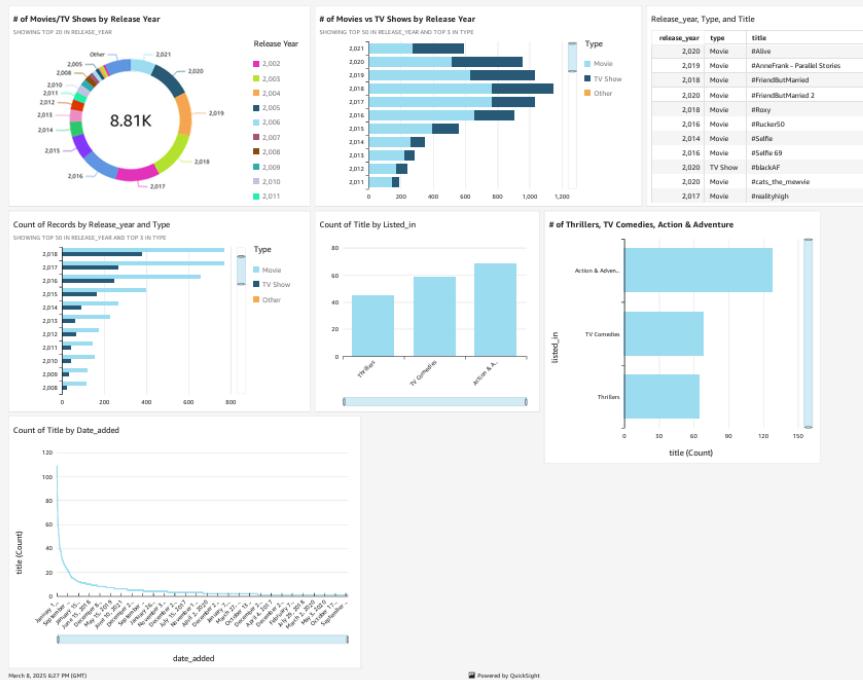


# Visualize data with QuickSight



Seth Sekyere





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# Introducing Today's Project!

## What is Amazon QuickSight?

Amazon QuickSight is a cloud-based service for data analysis and visualization. It helps users easily create interactive dashboards and reports, enabling data-driven decisions without requiring advanced technical skills.

## How I used Amazon QuickSight in this project

In today's project, I used Amazon QuickSight to connect to an S3 bucket containing Netflix data, create interactive visualizations, and answer specific questions about TV shows and movies, such as release trends, categories, and counts.

## One thing I didn't expect in this project was...

One thing I didn't expect in this project was how easy it was to connect and visualize data from an S3 bucket in Amazon QuickSight, and how intuitive the process was for creating interactive charts and filters.

## This project took me...

10 minutes



Seth Sekyere

# Upload project files into S3

S3 is used in this project to store two files, which are: 1. netflix\_titles.csv – dataset containing details about Netflix shows and movies, used for analysis in QuickSight. 2. manifest.json – metadata file that helps QuickSight process the csv data.

I edited the manifest.json file by replacing the existing URL with the S3 URL of my netflix\_titles.csv dataset. This is important because it ensures QuickSight can locate and correctly process the data from S3.

The screenshot shows the AWS S3 console interface. The top navigation bar includes the AWS logo, a search bar, and account information for 'Sethsekyere @ 6820-3547-5949'. Below the navigation is a breadcrumb trail: 'Amazon S3 > Buckets > nextwork-quicksight-project-sethsekyere'. The main content area is titled 'nextwork-quicksight-project-sethsekyere' with a 'Info' link. A navigation bar below the title has tabs for 'Objects' (which is selected), 'Metadata', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Actions' menu is open, showing options like 'Upload'. The 'Objects' table lists two items:

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	manifest.json	json	March 8, 2025, 11:38:09 (UTC-05:00)	310.0 B	Standard
<input type="checkbox"/>	netflix_titles.csv	csv	March 8, 2025, 11:31:15 (UTC-05:00)	3.2 MB	Standard

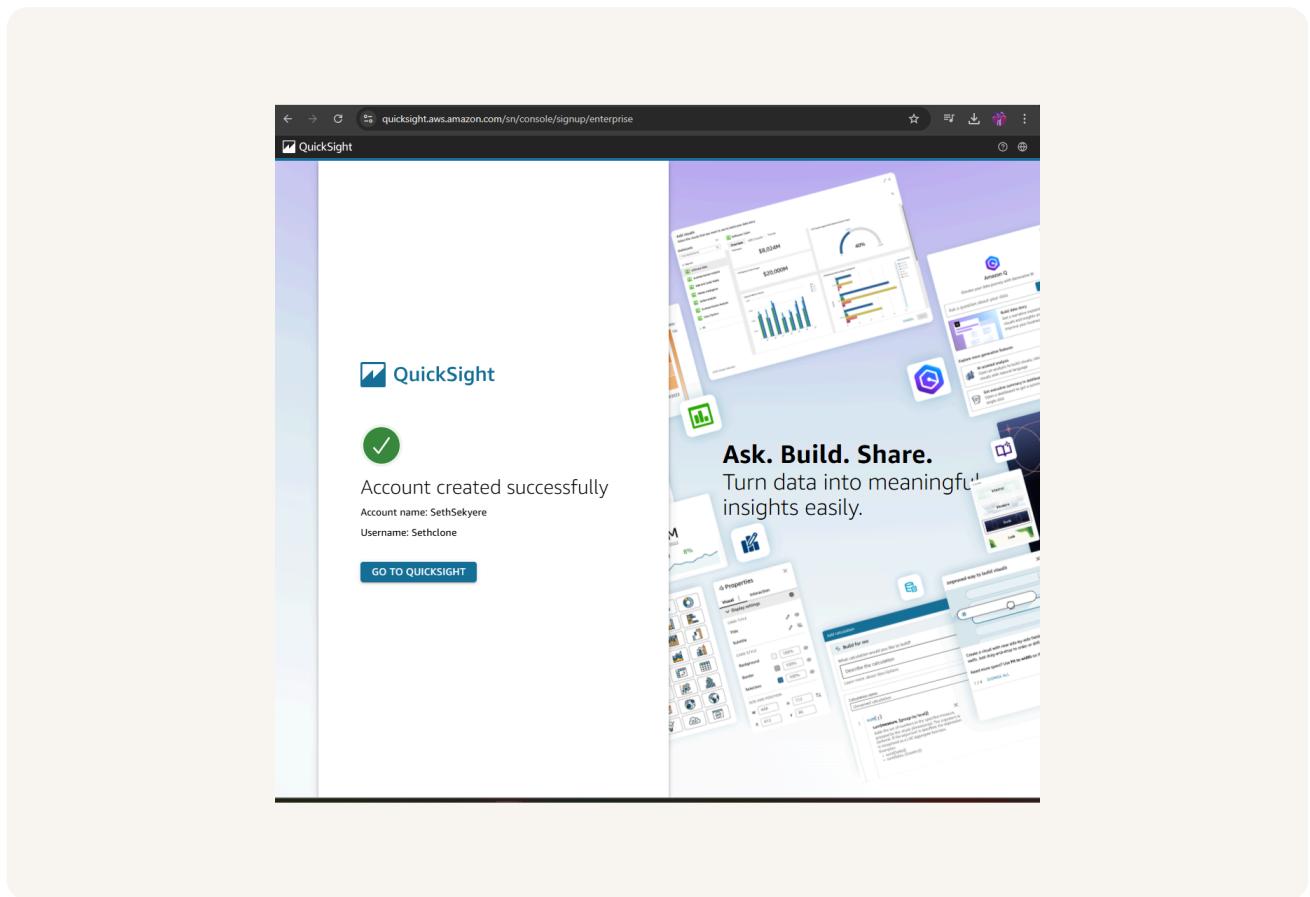


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# Create QuickSight account

Creating a QuickSight account costs nothing initially, as you can sign up for a free trial of the Enterprise edition. After the trial period ends, you'll be billed based on usage, such as the number of users or the data volume processed.

Creating an account took me around 1 minute, including the sign-up process and setting up the necessary permissions for S3 integration.



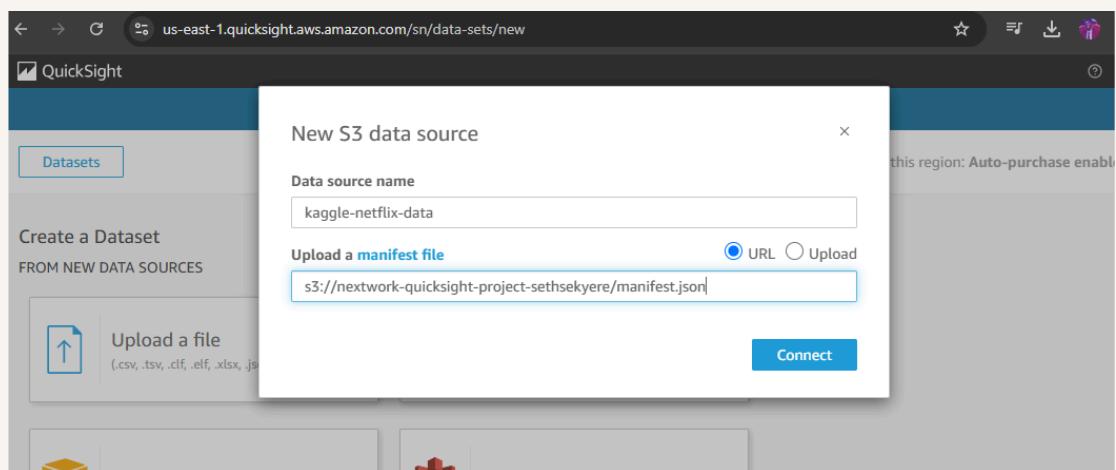


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# Download the Dataset

I connected the S3 bucket to QuickSight by visiting the Datasets page. From there, I selected New dataset, chose S3 as the data source, and entered the source name. I then provided the S3 URL for the manifest.json file to complete the connection.

The manifest.json file was important in this step because it tells QuickSight how to understand and display the dataset correctly in charts or graphs. Without it, QuickSight may struggle to process and visualize the data accurately.





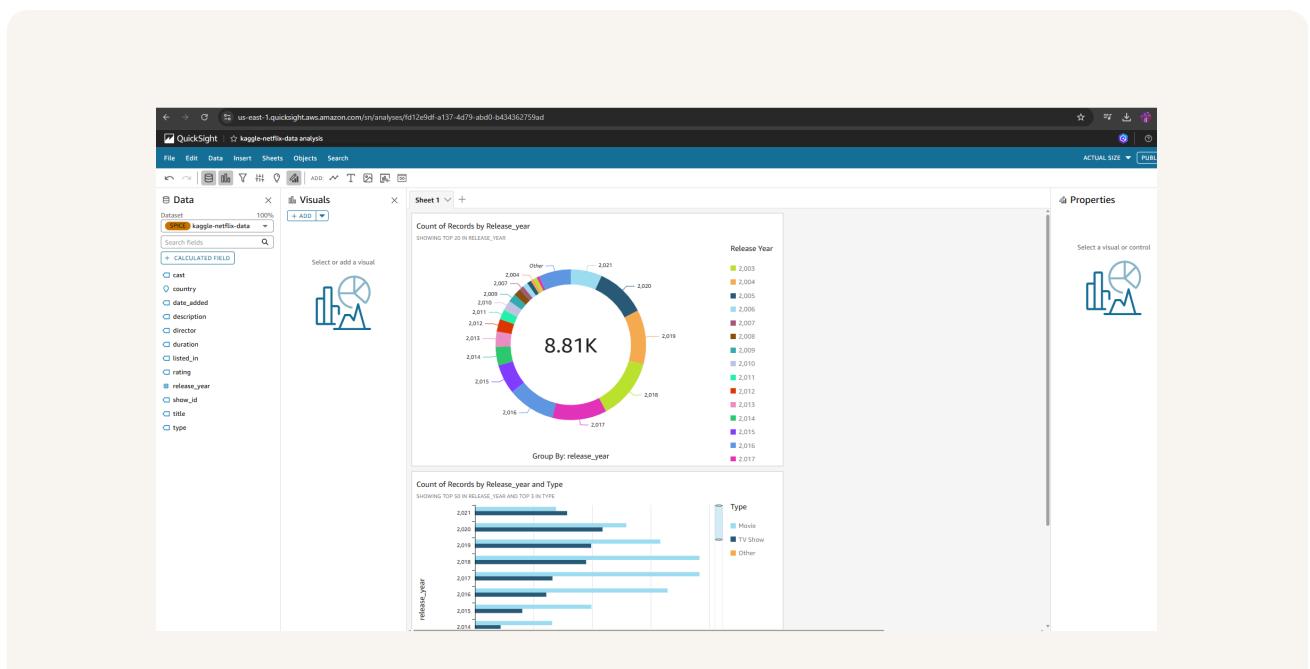
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# My first visualization

To create visualizations on QuickSight, I drag fields from the dataset into the graph area, choose chart types like bar or donut charts, and customize the layout by resizing and organizing the charts for my dashboard.

The chart shows a breakdown of Netflix content. The donut chart groups by release year, showing the number of shows and movies. The second chart compares TV shows vs. movies each year, with release year on the Y-Axis and type in Group/Color.

I created this graph by dragging release\_year into the Y-Axis for both visualizations. For the donut chart, it shows the release year breakdown, while for the TV vs. movies chart, I placed the type field in Group/Color.

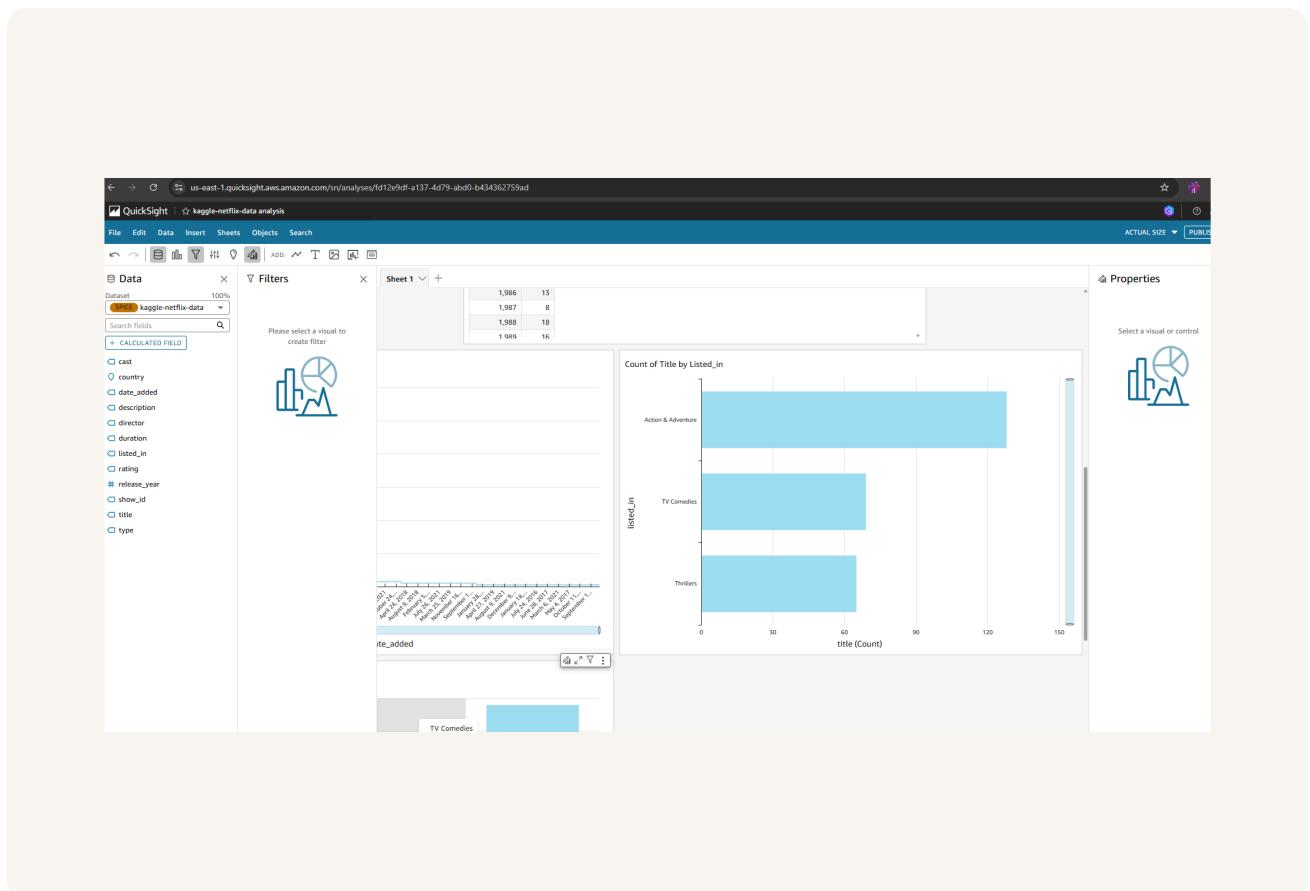


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# Using filters

Filters are useful for narrowing a dataset to focus on specific data points or categories. They help exclude irrelevant information, making it easier to analyze trends and identify patterns for more targeted insights.

This visualization is a breakdown of the count of TV shows and movies in the 'Action & Adventure', 'TV Comedies', and 'Thrillers' categories. Here I added a filter by the `listed\_in` field to include only these three categories.





Seth Sekyere

# Setting up a dashboard

As a finishing touch, I gave my dashboard a name (e.g., "Netflix titles analysis") and selected Publish to make it public. I then exported it as a PDF using the Export icon and downloaded the PDF version of the dashboard.

Did you know you could export your dashboard as PDFs too? I did this by selecting the Export icon in the top right corner, then choosing Generate PDFs. After waiting for the PDF to be ready, I clicked Download to save it.

