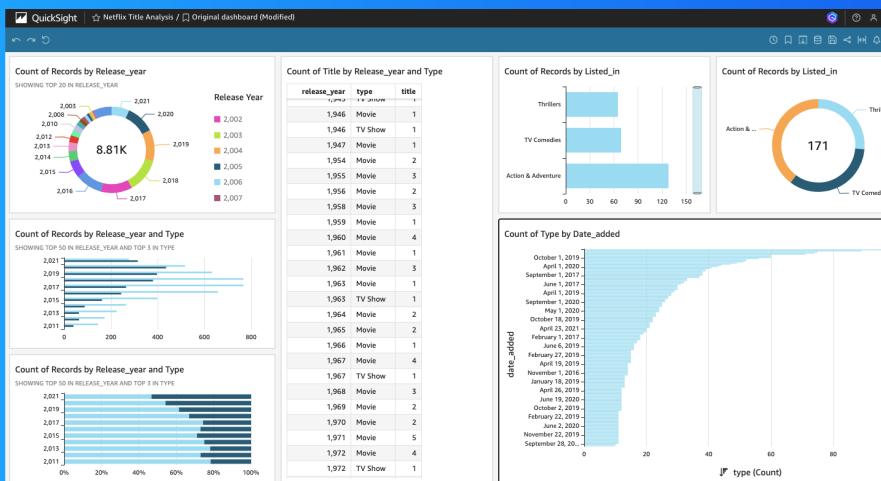




Visualize data with QuickSight



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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based BI tool that enables data visualization and analysis. It's useful for creating interactive dashboards, uncovering insights, and making data-driven decisions quickly.

How I used Amazon QuickSight in this project

In today's project, I used Amazon QuickSight to connect to an S3 bucket, create visualizations of movies versus TV shows by release year, apply filters, and export the dashboard as a PDF for easy sharing.

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

One thing I didn't expect in this project was how quickly QuickSight could integrate with S3 and generate visualizations. The seamless setup and intuitive design made the process smoother than anticipated.

This project took me...

This project took me approximately an hour. It involved setting up QuickSight, connecting the data source, creating and refining visualizations, and exporting the final dashboard.



Upload project files into S3

S3 is used in this project to store two files, which are the Netflix titles in CSV and Manifest in JSON format.

I edited the manifest.json file by changing the URI of the CSV file on the S3 bucket. It's important to edit this file because the manifest.json file ensures that the application references the correct data source, which is crucial for accurate data.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3', 'Buckets', and the specific bucket name 'nextwork-quicksight-project-kislay'. Below the navigation is a sub-header 'nextwork-quicksight-project-kislay' with an 'Info' link. A horizontal menu bar contains 'Objects' (which is selected), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Below this is a toolbar with buttons for 'Upload' (highlighted in orange), 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', and 'Actions'. A search bar labeled 'Find objects by prefix' is present. The main content area displays a table of objects:

| Name | Type | Last modified | Size | Storage class |
|------------------------------------|------|---------------------------------------|---------|---------------|
| manifest.json | json | August 21, 2024, 22:44:20 (UTC-04:00) | 305.0 B | Standard |
| netflix_titles.csv | csv | August 21, 2024, 22:40:09 (UTC-04:00) | 3.2 MB | Standard |

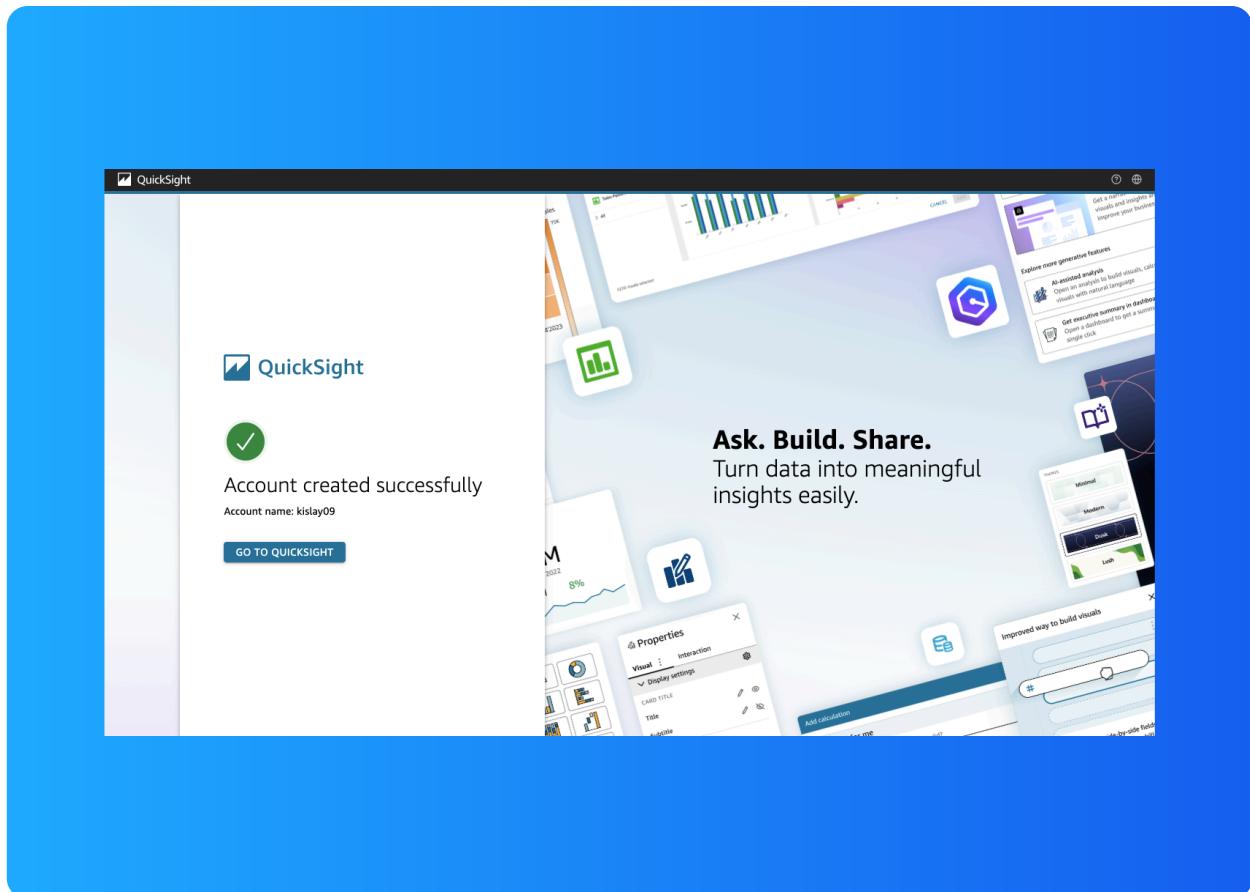
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Create QuickSight account

Creating a QuickSight account costs nothing initially because AWS offers a free trial for new users. However, once the trial period ends, there are charges based on the chosen pricing plan.

Creating an account took me just a few minutes. The process is straightforward, requiring only basic information and initial setup steps before you can start using QuickSight.





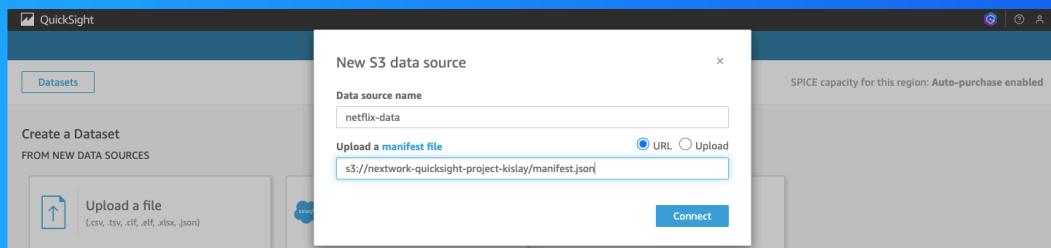
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Download the Dataset

I connected the S3 bucket to QuickSight by visiting the Manage data sources page, where I selected New data set and chose S3 as the data source to configure the connection.

The manifest.json file was important in this step because it defines the structure and location of the data files in the S3 bucket. It ensures that QuickSight can accurately load and process the correct data, especially when dealing with large data.



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My first visualization

To create visualizations on QuickSight, I start by selecting New analysis, choose a data source, then drag and drop fields onto the visual pane. I can customize chart types, filters, and settings to build the visualizations.

The chart shown here is a breakdown of movies versus TV shows by their release year. It displays the number of each type of content released annually, providing a clear comparison over time.

I created this graph by dragging and dropping the Release Year field onto the Y-axis and the Content Type field onto the color/group section.



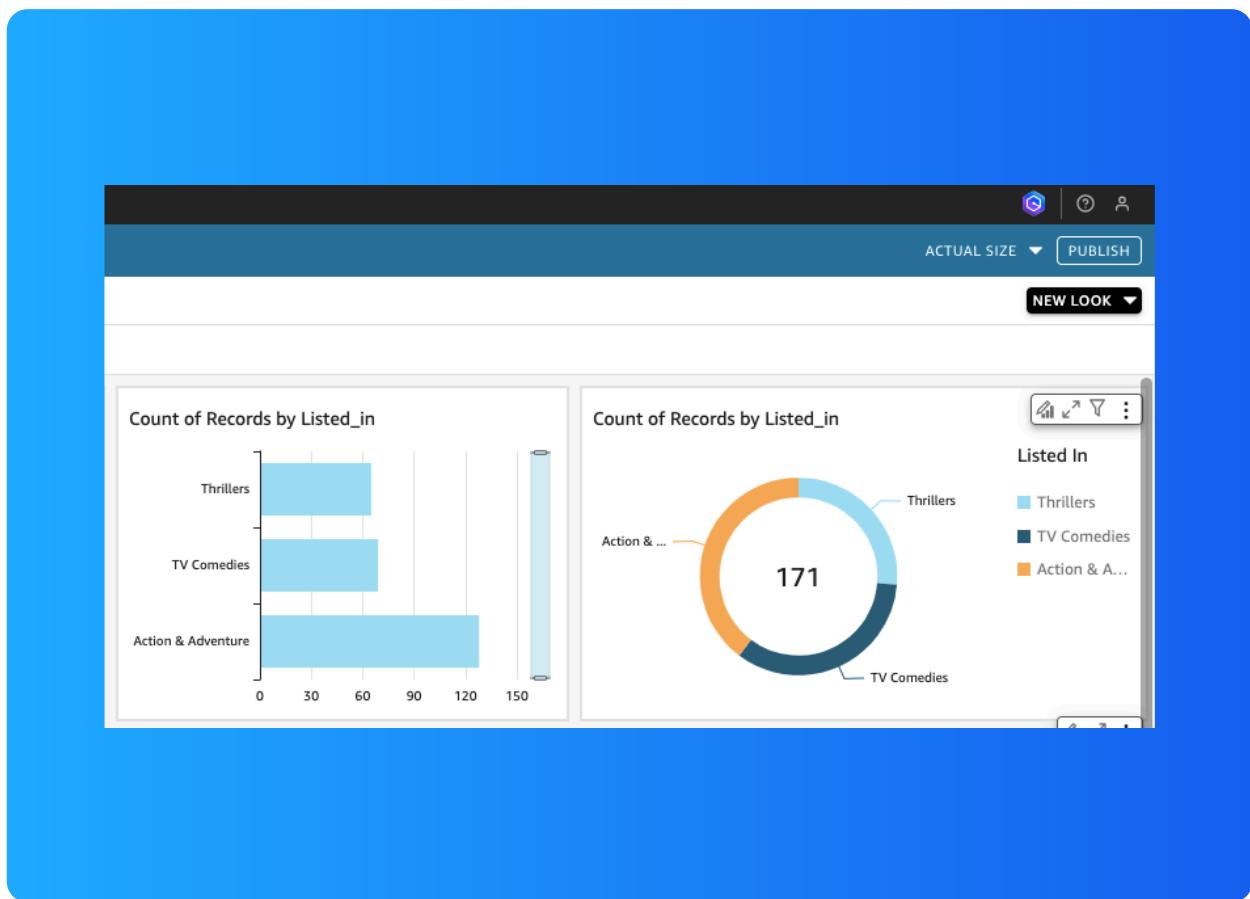
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Using filters

Filters are useful for narrowing down data to focus on specific subsets, improving analysis accuracy, and enhancing the clarity of visualizations. They help in isolating relevant information and removing noise.

Here I added a filter by excluding movies and TV shows that were released before 2015.

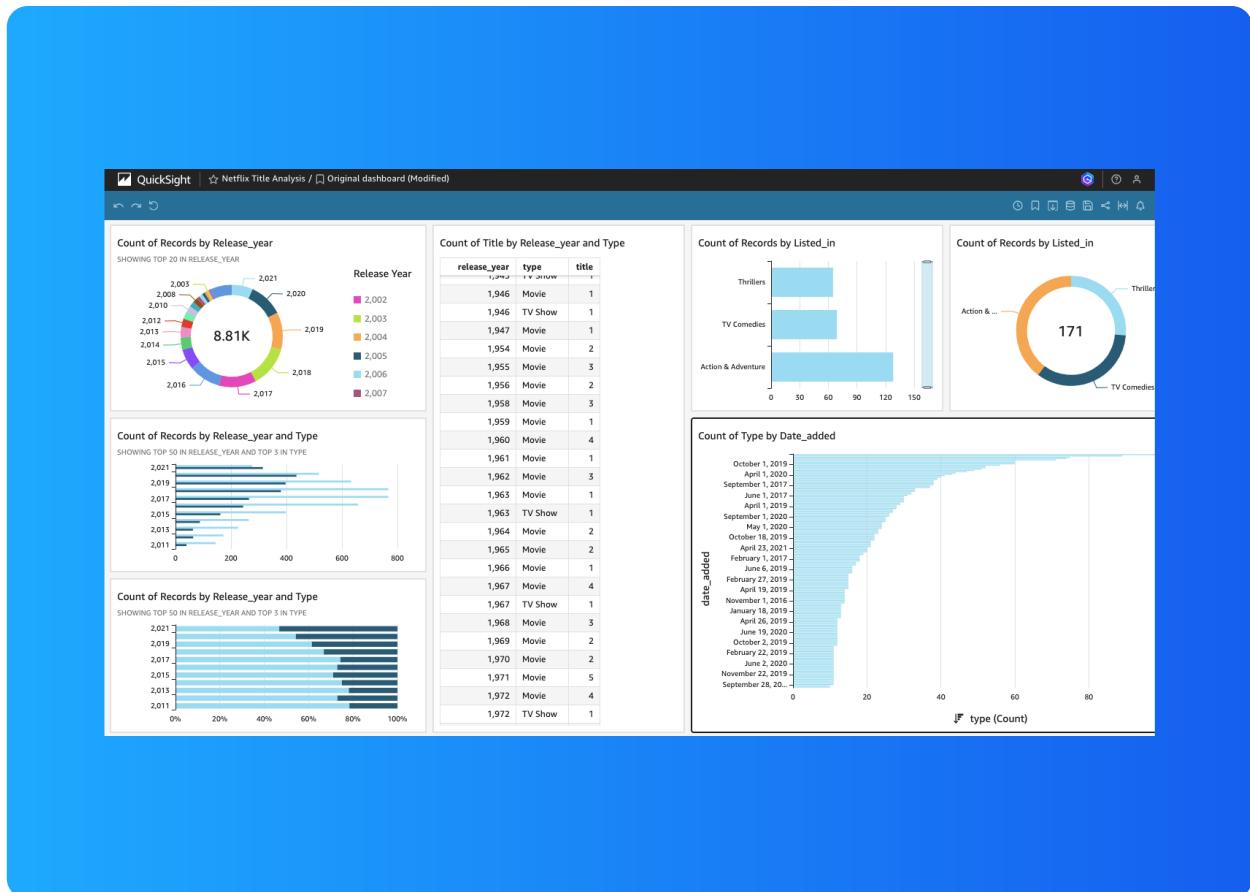




Setting up a dashboard

As a finishing touch, I edited the titles in my charts to ensure they were clear and descriptive, making it easier for anyone to understand the visualizations at a glance before publishing the dashboard.

Did you know you could export your dashboard as PDFs too? I did this by selecting the export option and choosing generate PDF from the menu, allowing me to save and share the dashboard in a printable format.





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