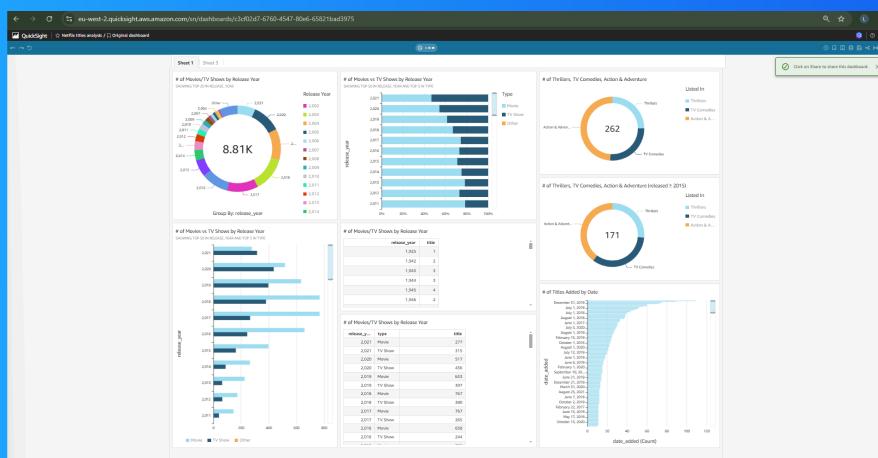




Visualize data with QuickSight



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Introducing Today's Project!

What is Amazon QuickSight?

Quicksight is a resource tool available in AWS that enables users to analyze and visualize complex data into simple interactive data, charts, or reports on a dashboard that makes it easy to understand and interpret.

How I used Amazon QuickSight in this project

I began by uploading my dataset into an S3 bucket. I created an account on Amazon QuickSight. I connected my dataset to Amazon QuickSight, then I created a variety of graphs, charts, and analyses on QuickSight. I ended by publishing my final work.

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

I felt comfortable with this project, nothing was a surprise. With my little research, I was able to sail through successfully.

This project took me...

I spent about 2 and a half hours on this project.



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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"

I edited the manifest.json file by inserting the S3 URL for the 'netflix_titles.csv' in the S3 Bucket using VSCode text editor. It's important to edit this file because the right file location is necessary to access the file when an API call is made.

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with 'AWS', 'Services', a search bar, and a user profile for 'Marvin'. Below the navigation is a breadcrumb trail: 'Amazon S3 > Buckets > nextwork-quicksight-project-quicksite-project'. Underneath the breadcrumb is a sub-navigation bar with tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected. A sub-header 'Objects (2) Info' is displayed, along with a note about using Amazon S3 inventory to get a list of all objects in the bucket. There are buttons for 'Actions' (with options like 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Create folder', and 'Upload'), a 'Find objects by prefix' input field, and navigation arrows. The main area shows a table of objects:

Name	Type	Last modified	Size	Storage class
manifest.json	json	October 21, 2024, 13:00:05 (UTC+00:00)	316.0 B	Standard
netflix_titles.csv	csv	October 21, 2024, 12:52:53 (UTC+00:00)	3.2 MB	Standard



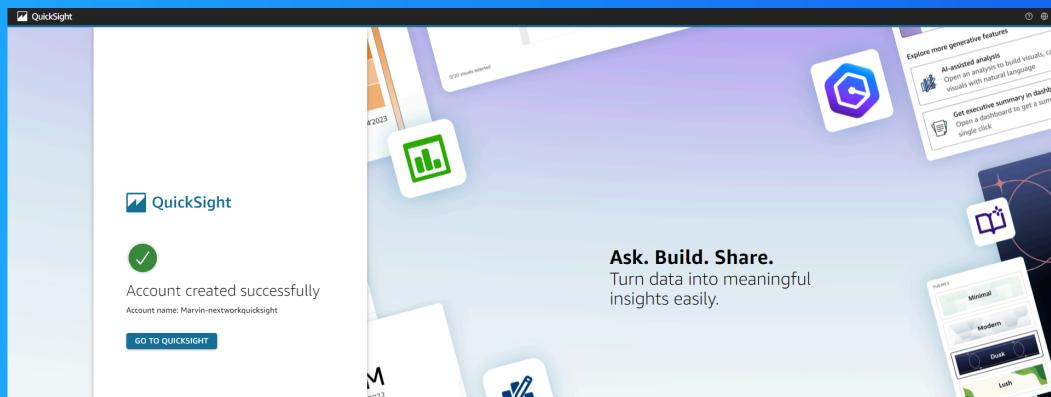
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Create QuickSight account

Creating a QuickSight account cost \$500 a month, however it also comes with a free-tier, therefore there will be no charges for this project since all resources will be deleted immediately after the project is completed.

Creating an account took me less than 5 minutes. I carefully read the instructions and information on the site.





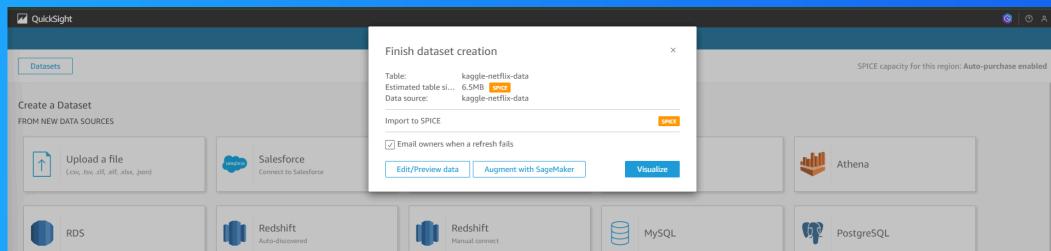
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Download the Dataset

I connected the S3 bucket to QuickSight by visiting the Amazon Quicksight resource section on the management console.

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





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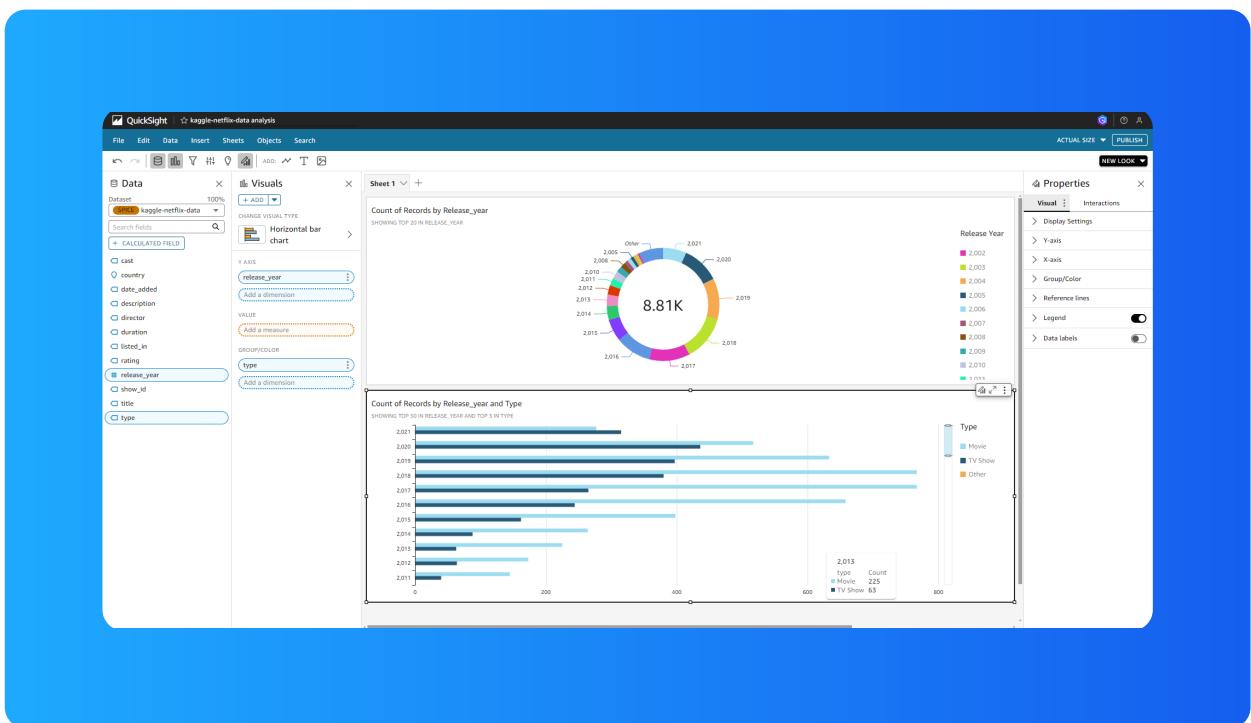
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My first visualization

To create visualizations on QuickSight, I connected the QuickSight Dataset with the manifest file in the S3 bucket. I named it "Kaggle-netflix-data". I am able to sort data to create different visualizations.

The chart/graph shown here is a breakdown of the year that the Netflix-featured TV shows and movies were released.

I created this graph by dragging and dropping the "release_year" and "type" fields.





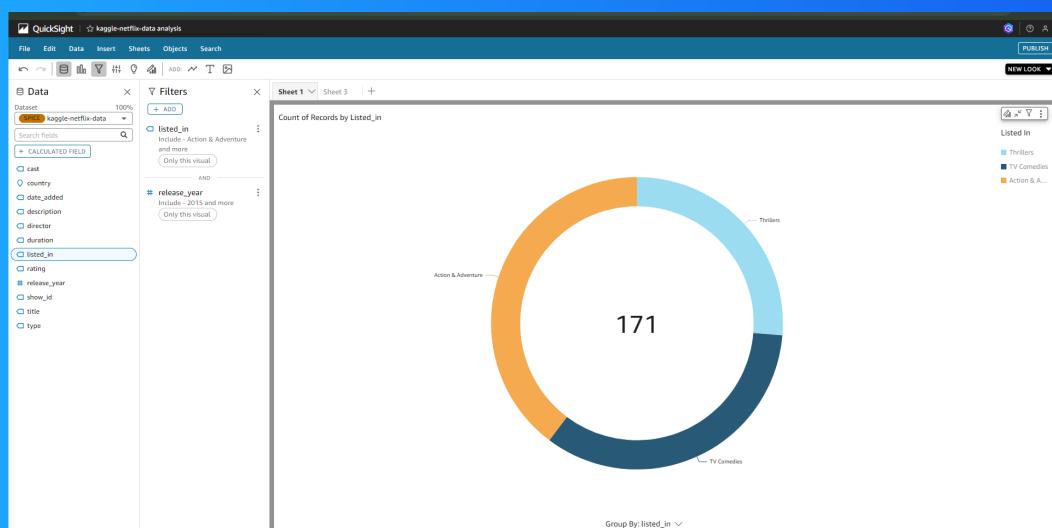
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Using filters

Filters are useful for several reasons such as data focus, customization, performance optimization, and dynamic analysis of data. They enhance interactivity, flexibility, and focus in Quicksight analytics.

This visualization is a breakdown of TV shows and movies that were released on or after the year 2015. This means excluding anything released before 2015.





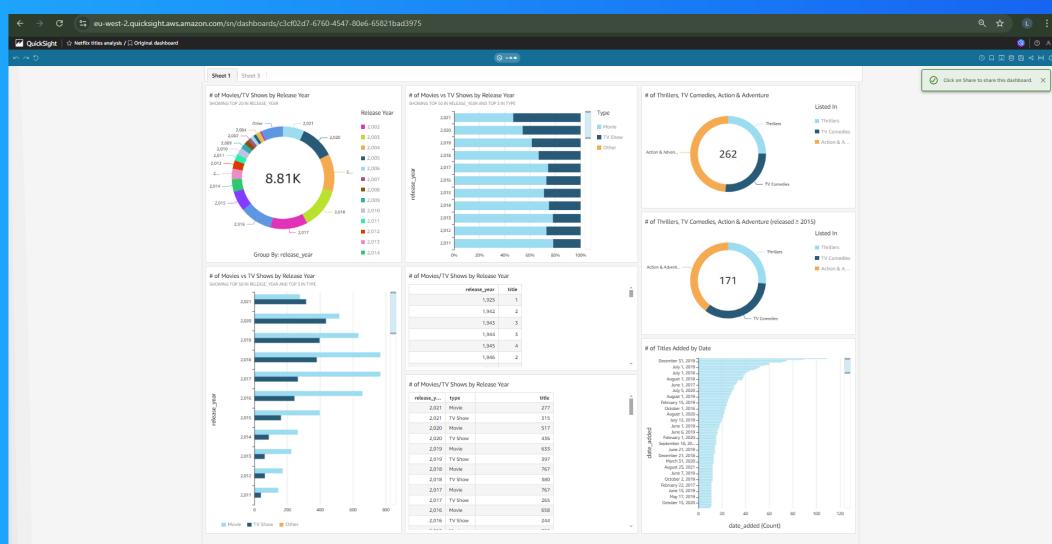
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Setting up a dashboard

As a finishing touch, I neatly ordered all the visual tabs and labeled each of the graphs. I gave the dashboard a name as Netflix titles analysis.

I did this by clicking on the export and selecting the pdf option. This was after publishing the analysis. Once the PDF was ready after a few seconds, I downloaded it to my local computer.





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