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Visualize data with QuickSight

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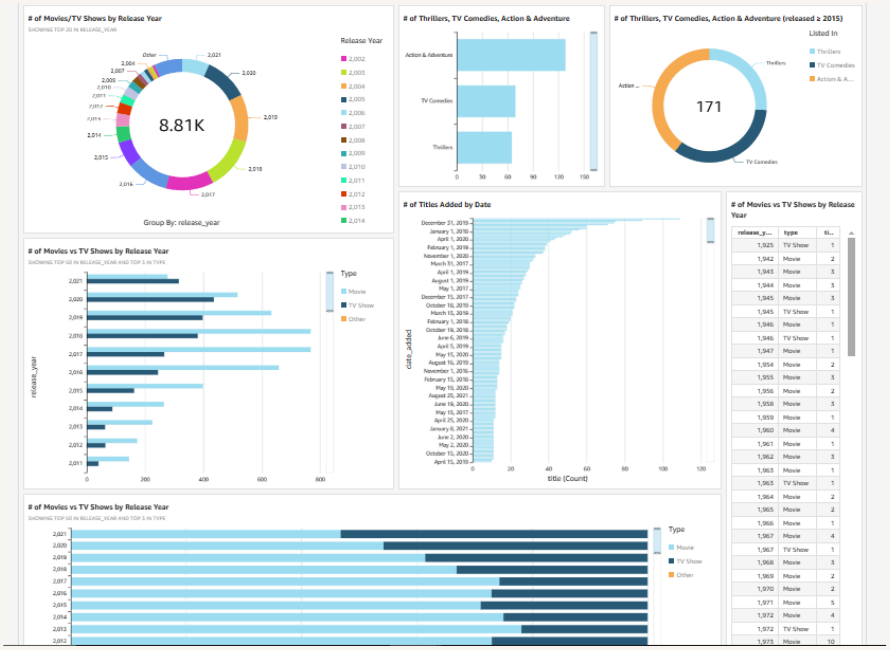

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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud tool for visualizing data from sources like S3. It helps create interactive dashboards, apply filters, and export reports. It enables quick data analysis, trend identification, and decision-making with easy-to-use visuals

How I used Amazon QuickSight in this project

I used Amazon QuickSight in the Netflix Titles project to connect an S3 dataset using a manifest.json file, create visualizations like donut charts and bar graphs, apply filters for better insights, and export the final dashboard as a PDF.

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

One thing I didn't expect in this project was that some of the graphs could not be resized. I wasn’t sure why this happened, which made adjusting the dashboard layout a bit challenging.

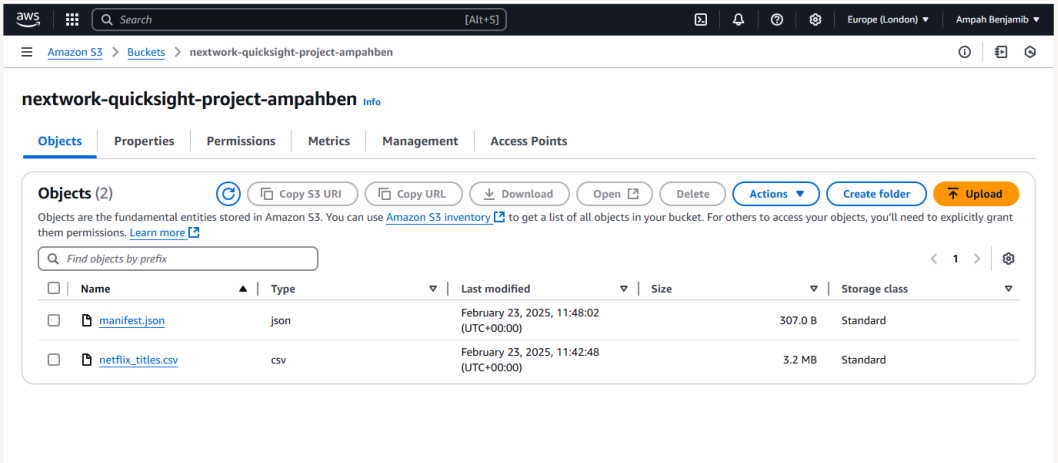
This project took me...

This project took me 1 hour and 30 minutes as I had to read about the graphs, explore different visualization options, and experiment with the features to understand how to best present the data.

Upload project files into S3

S3 is used in this project to store two files, which are `manifest.json` and `netflix_titles.csv`. The `manifest.json` file defines metadata and configurations, while `netflix_titles.csv` contains Netflix show data for analysis and processing.

I edited the `manifest.json` file by updating the URIs to correctly reference the S3 bucket path for accessing `netflix_titles.csv`. It's important to edit this file because it ensures QuickSight or other services can locate and process the dataset.



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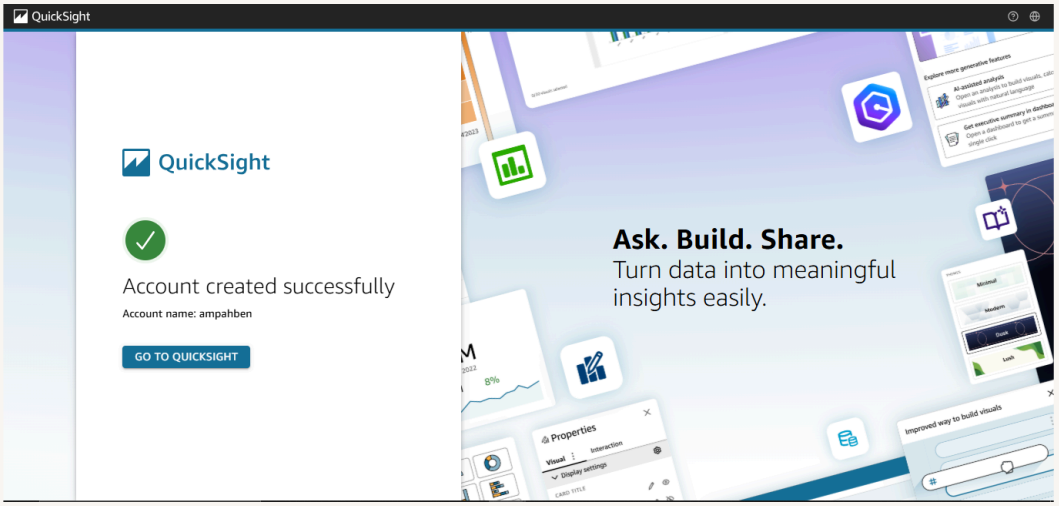
Create QuickSight account

Creating a QuickSight account costs money, but AWS offers a free trial. After that, the Standard plan is $9/user/month, and Enterprise is $18/user/month. Additional costs may apply based on session usage and data capacity. Pricing varies by usage.

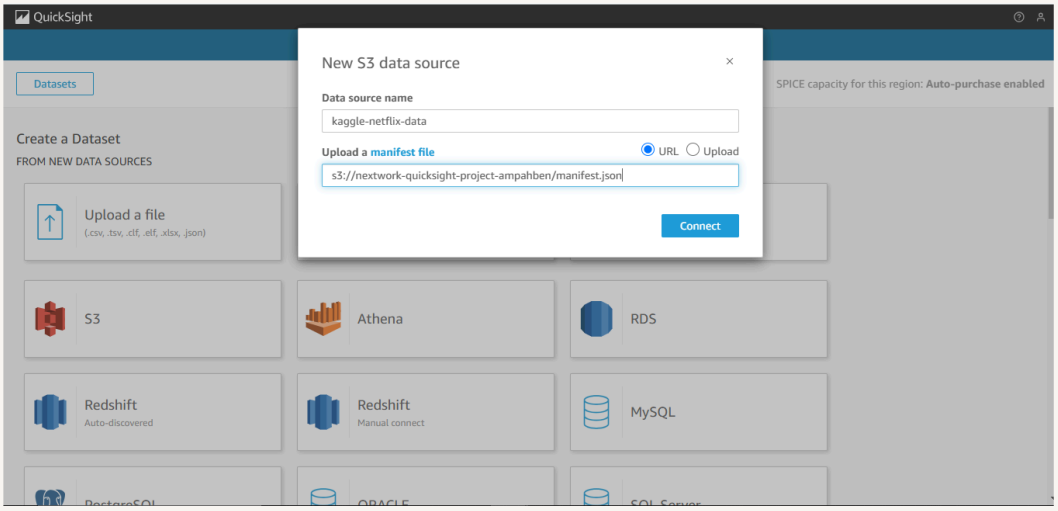
Creating an account took me one minute. Since I am using S3, I needed to grant QuickSight access to S3 during setup to ensure it could read data from my bucket for analysis.



Download the Dataset

I connected the S3 bucket to QuickSight by visiting the QuickSight page, selecting "Datasets" from the left navigation, clicking "New Dataset", and entering the Data source name (Kaggle) along with the manifest file URL to load the data.

The `manifest.json` file was important in this step because it defined the S3 path, file format, delimiter, and header settings. This allowed QuickSight to correctly locate and interpret `netflix_titles.csv`,ensuring seamless data import and analysis



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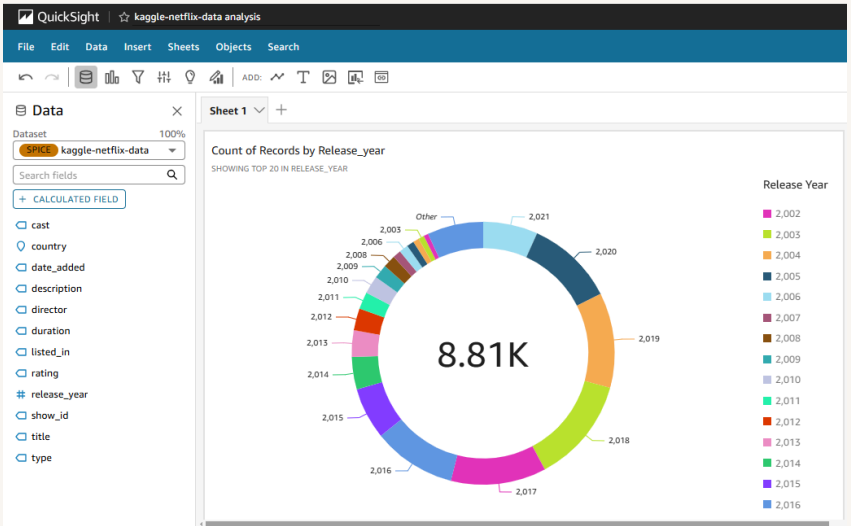
My first visualization

To create visualizations on QuickSight, I clicked "Visualize", then "Create", and selected an interactive sheet. I chose a column, and QuickSight generated a default graph. I could then edit the graph, customize fields, and adjust visualization.

The chart/graph shown here is a donut chart displaying the count of Netflix titles by release year. Each color represents a different year, and the total count is 8.81K, showing the distribution of releases over time.

I created this graph by dragging and dropping the release_year field into the visual pane.QuickSight selected a donut chart to display the count of records per year. I used release_year as the category and record count as the metric for visualization



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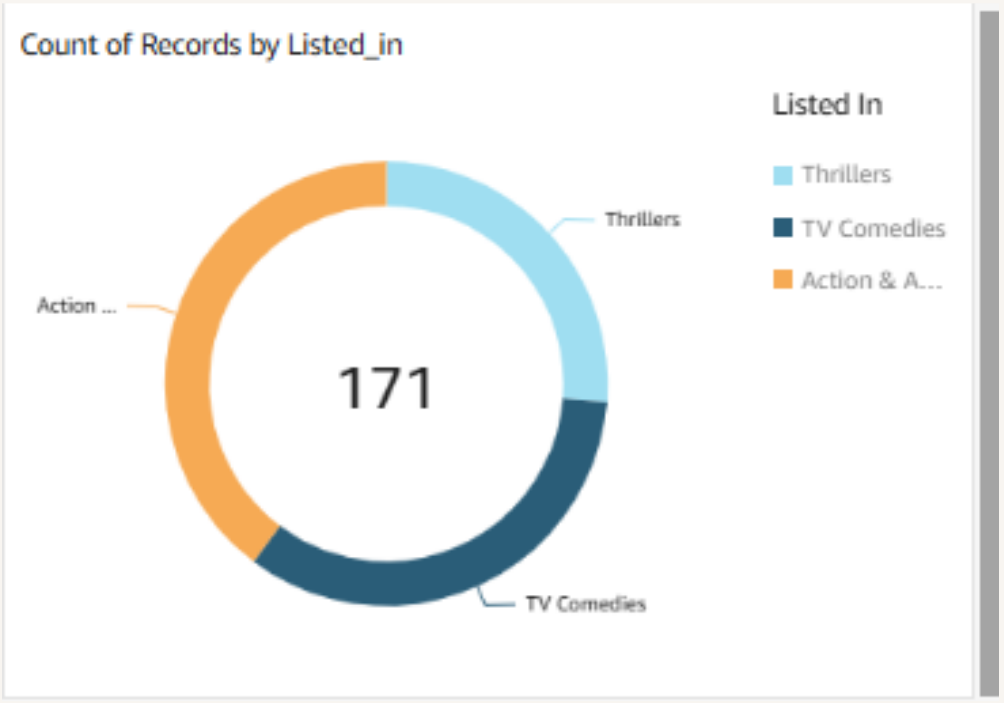
Using filters

Filters are useful for sorting data by specific criteria, allowing better analysis and visualization. They help focus on relevant data, exclude unnecessary details, and improve insights by refining the dataset based on selected conditions.

This visualization is a breakdown of the count of records by the "Listed_in" category, showing the distribution of titles across genres like Thrillers, TV Comedies, and Action & Adventure. I added a filter by genre to focus on specific categories.



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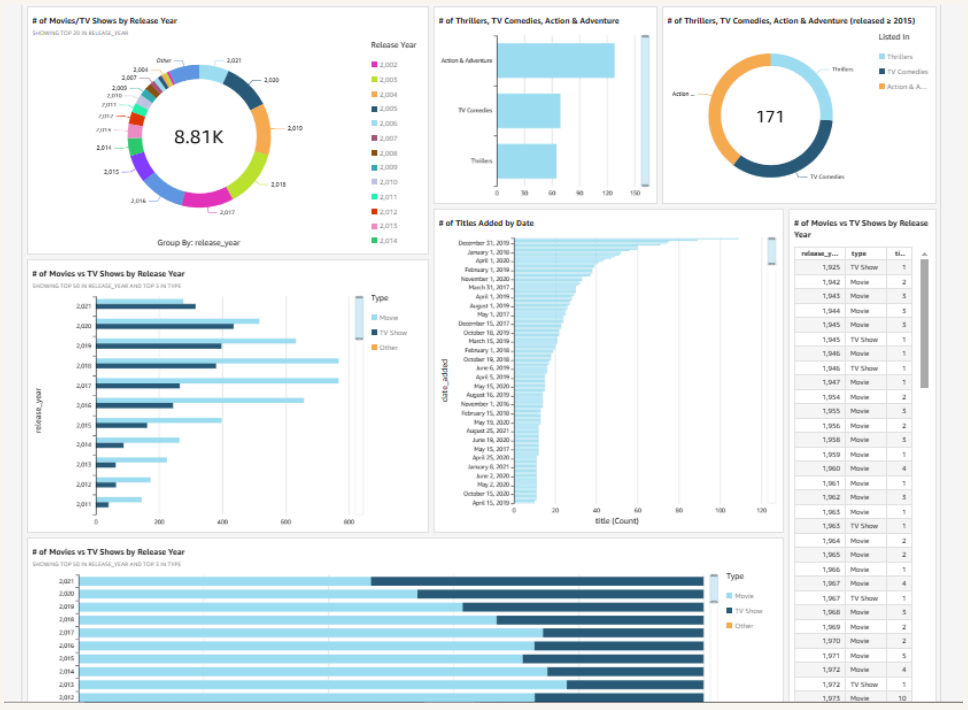
Setting up a dashboard

As a finishing touch, I renamed my graph titles to meaningful names, ensuring they clearly communicated insights from the visuals. I also reviewed the layout and verified that filters and interactions worked as expected before publishing.

Did you know you could export your dashboard as PDFs too? I did this by clicking the export icon after publishing, selecting "Generate PDF," waiting for the process to complete, and then downloading the PDF file.



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