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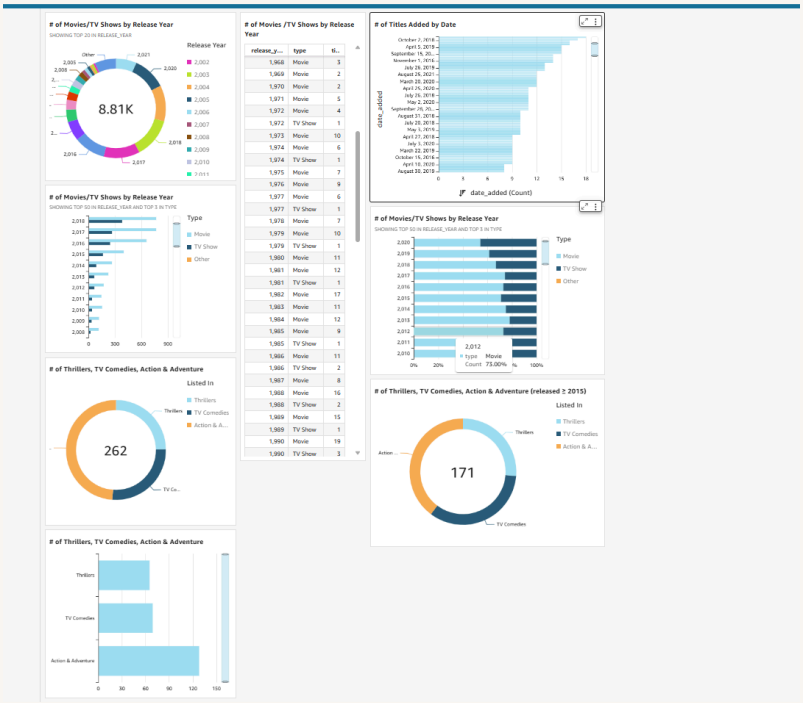
Visualize data with QuickSight

Martin



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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based BI and data visualization tool that helps create interactive dashboards and reports. It’s fast, scalable, and cost-effective, integrates with AWS services, supports AI-driven insights, and enables secure analytics.

How I used Amazon QuickSight in this project

"I used Amazon QuickSight to analyze Netflix titles by uploading the dataset along with manifest.json for structured metadata. I created interactive dashboards to visualize trends, genres, and content distribution efficiently.

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

"I didn’t expect data formatting challenges the manifest.json structure required extra preprocessing to align properly with the Netflix titles dataset in QuickSight.

This project took me...

"This project took me 2 hours, including data preprocessing, uploading to QuickSight, and creating interactive dashboards for analysis."

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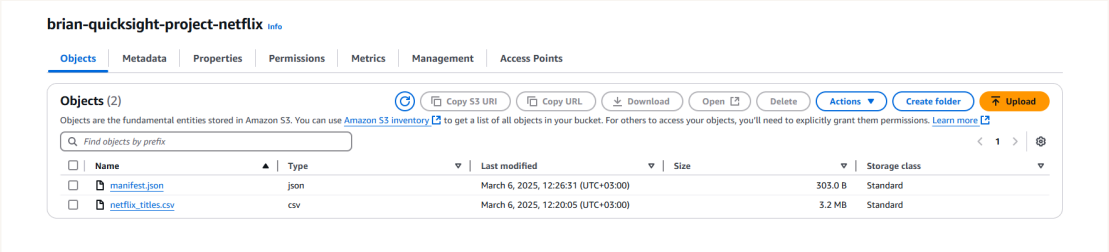
Upload project files into S3

S3 is used in this project to store two files, which are manifest.json and netflix_titles.csv. The manifest.json file helps define metadata and configurations, while netflix_titles.csv contains the dataset with Netflix show details.

I edited the manifest.json file by changing the S3 URL and copying and pasting the Netflix dataset URL. It's important to edit this file because it ensures the correct data source is linked, allowing the project to access and process the



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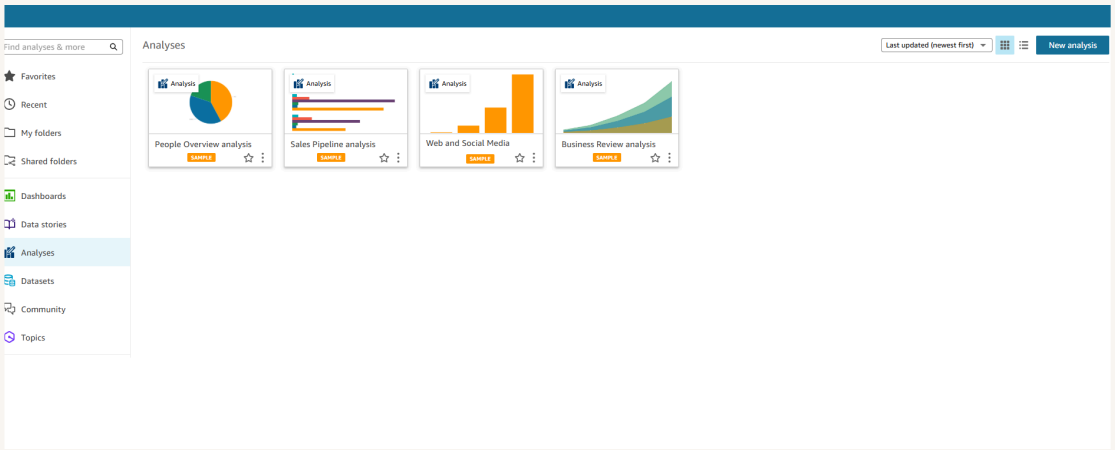
Create QuickSight account

Creating a QuickSight account cost nothing initially, as AWS offers a free trial for QuickSight Standard and Enterprise editions. However, after the trial, costs depend on the selected plan and usage, such as per-user or session-based pricing

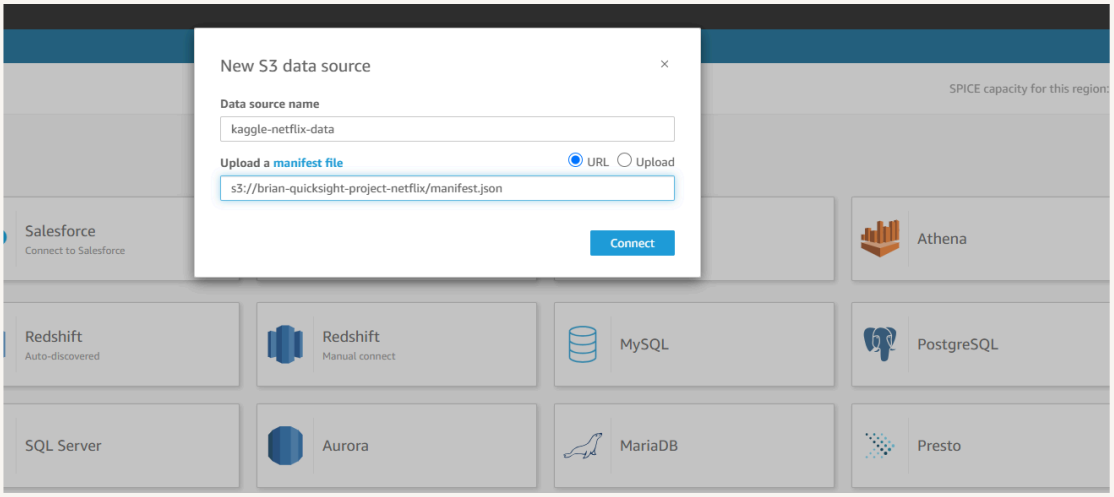
Creating an account took me a few minutes, as I had to set up user permissions, choose a region, and configure S3 access.



Download the Dataset

I connected the S3 bucket to QuickSight by visiting "Manage QuickSight" under the profile settings, then navigating to "Security & Permissions" and selecting "Manage" next to S3 buckets to grant access.

The manifest.json file was important because it helps QuickSight locate and load the S3 data correctly



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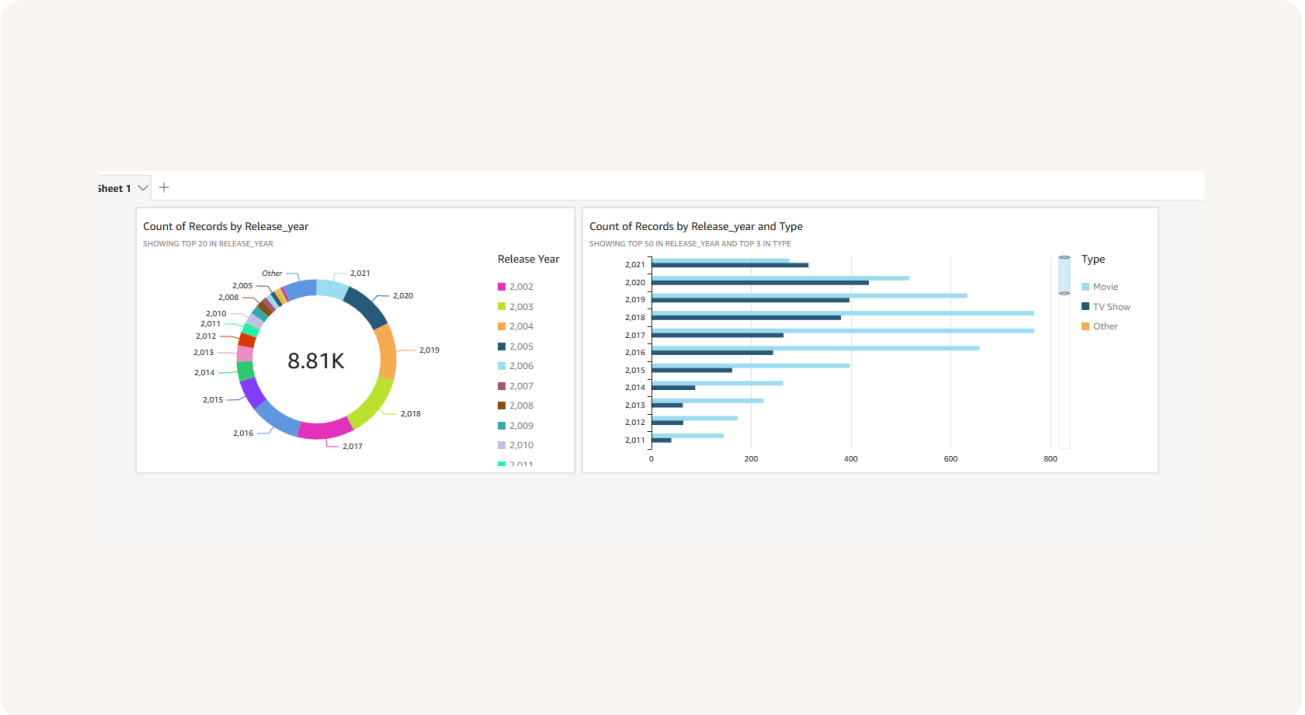
My first visualization

To create visualizations on QuickSight, I imported my dataset, selected a visualization type, and added fields to the analysis pane to generate insights.

The pie chart shows a breakdown of Netflix titles by release year, highlighting the distribution of content over time. The graph visualizes both release year and type (Movie/TV Show), helping to compare how many movies and shows were were released.

I created this graph by dragging Release Year and Type into the visualization pane, using Release Year for the pie chart and both fields for the graph.



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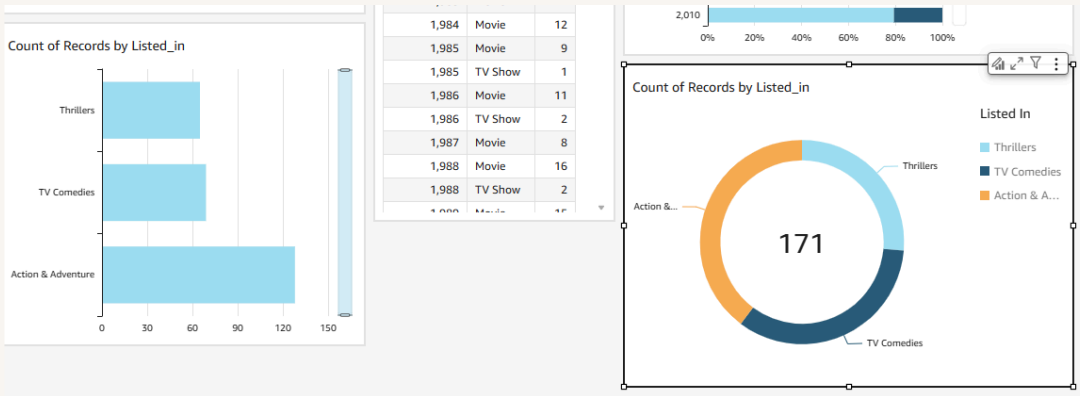
Using filters

Filters are useful for specifying the exact subset of data that you are wanting to analyze-effectively excluding any irrelevant data.

Here i added a filter by exluding movies and TV shows that were released before 2015. This helped me create a visualization on movies and TV shows of the three genres i specified that were released from 2015



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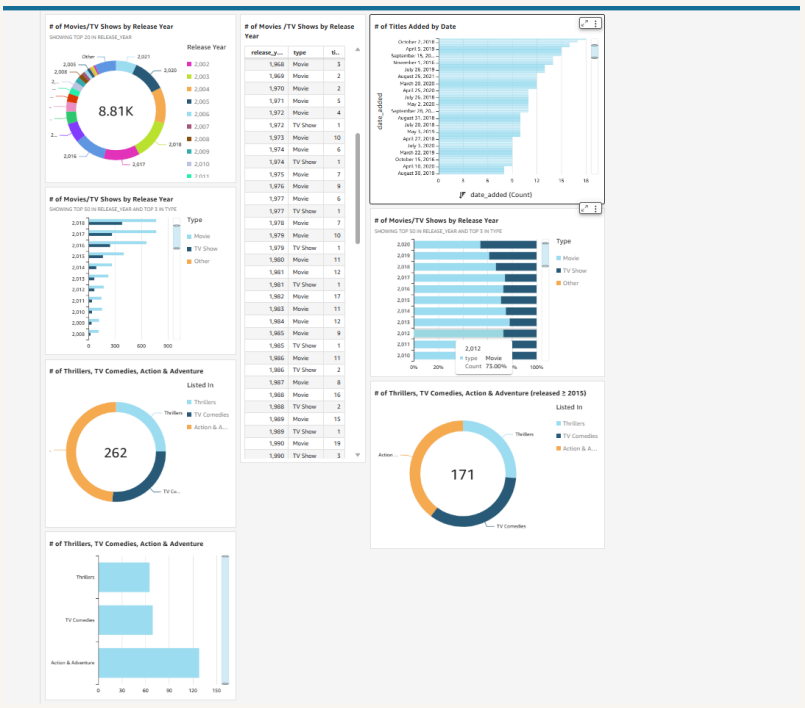
Setting up a dashboard

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

Did you know you could export your dashboard as PDFs too? I did this by clicking the publish button then export as pdf and was downloaded to my PC.



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