

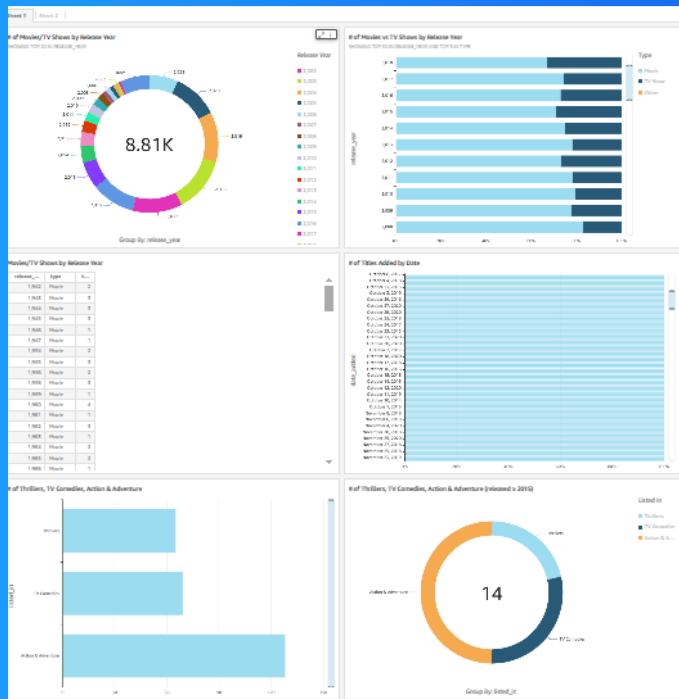


NextWork.org

Visualize data with QuickSight



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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based BI service that helps create interactive dashboards and visualizations. It's useful for its ease of use, scalability, real-time insights, seamless integration with AWS services, and cost-effective pricing.

How I used Amazon QuickSight in this project

I used QuickSight in today's project to visualize data from Netflix shows. I connected a dataset, created visualizations to show breakdowns by release year, applied filters for specific insights, and exported the dashboard as a PDF for sharing.

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

One thing I didn't expect in this project was how quickly Amazon QuickSight processes and visualizes large datasets, making it easy to explore and analyze data in real-time.

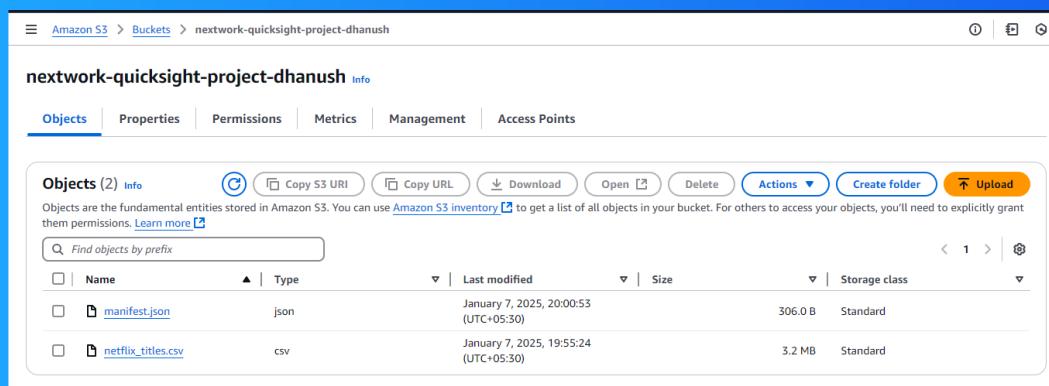
This project took me...

This project took me about 1 hour and 30 minutes to complete, including data preparation, creating visualizations, applying filters, and exporting the dashboard.

Upload project files into S3

S3 is used in this project to store two files, which are... 1. netflix_titles.csv. - This file contains all the data we're analysing! 2. manifest.json. - path URL for the file

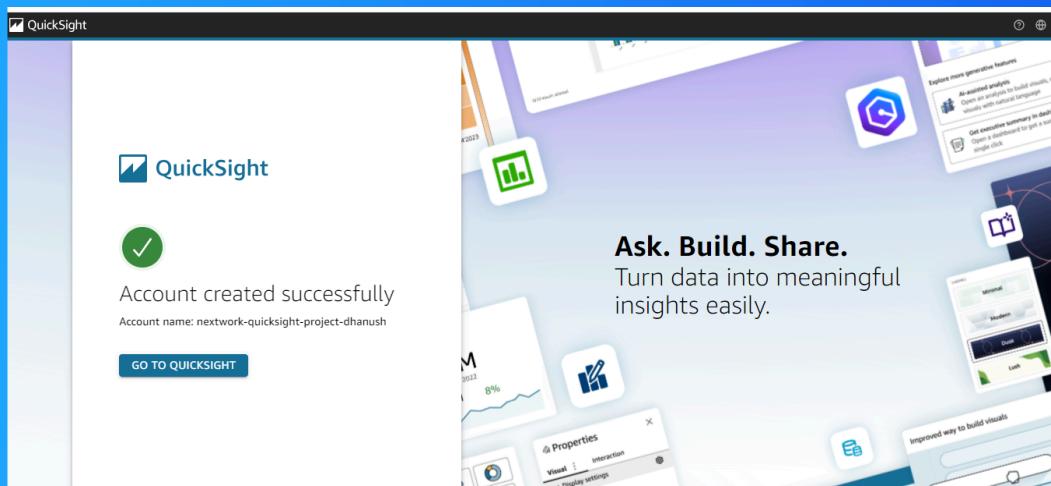
I edited the manifest.json file by "s3://nextwork-quicksight-project-dhanush/netflix_titles.csv" which contains dataset. It's important to edit file because later, QuickSight will connect to S3 to use the data in this bucket and create visualisation.



Create QuickSight account

Creating a QuickSight account cost is free for this project won't be charged once project done need to delete the quicksight account.

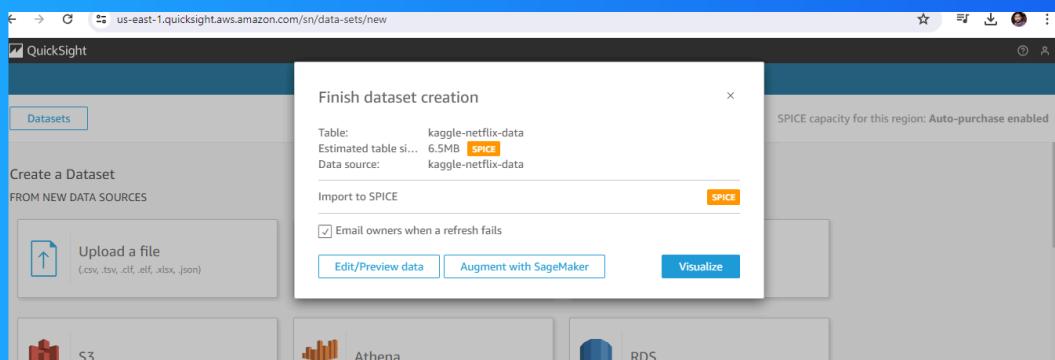
Creating an account took me about 5-10 minutes, including signing up through the AWS Management Console and setting up initial configurations.



Download the Dataset

I connected the S3 bucket to QuickSight by visiting the Datasets page, then selecting New Dataset and choosing S3 as the data source to link the bucket.

The manifest.json file was important in this step because it helps QuickSight understand how to read and combine multiple files from an S3 bucket. It specifies the file locations, formats, and other details necessary for correctly importing the data.

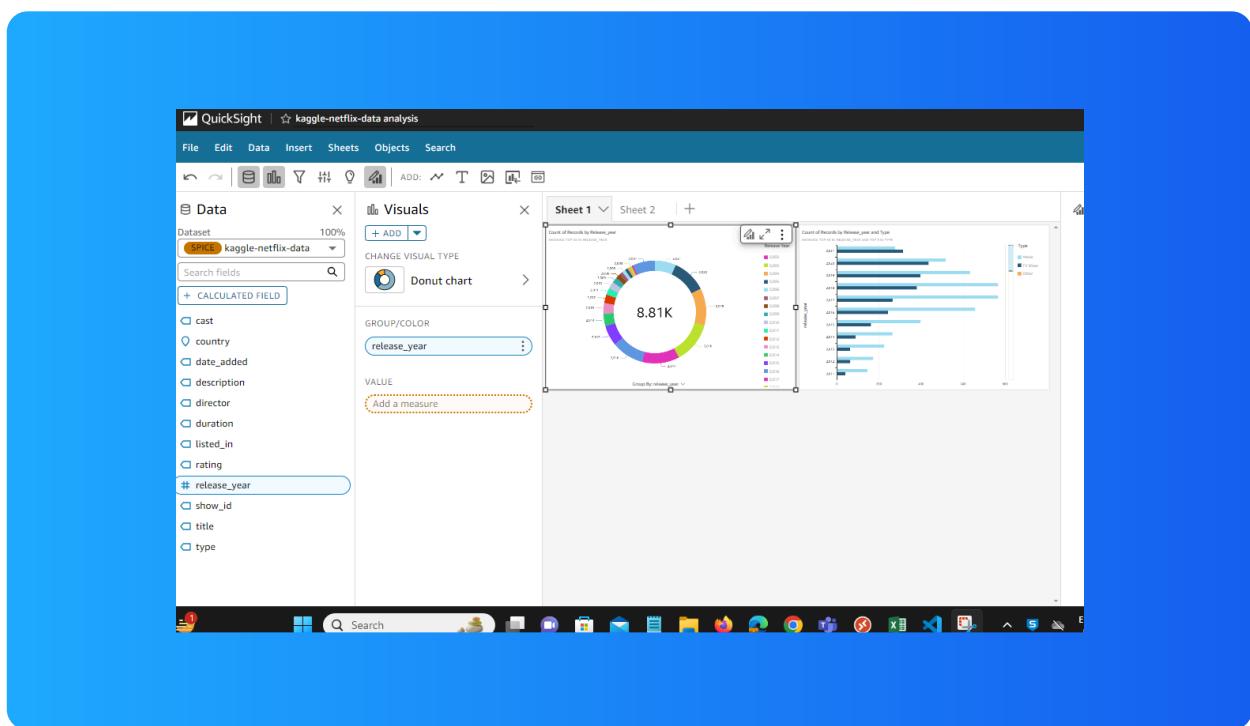


My first visualization

To create visualizations on QuickSight, I selected a dataset in a new analysis, added chart types, and customized them with fields, filters, and formatting options.

The chart/graph shown here is a breakdown of shows release year and second one shows the count of records by release year and type like (TV show, movie)

I created this graph by dragging and dropping the genre field onto the x-axis and the number of shows field onto the y-axis to display the distribution of Netflix shows by genre.

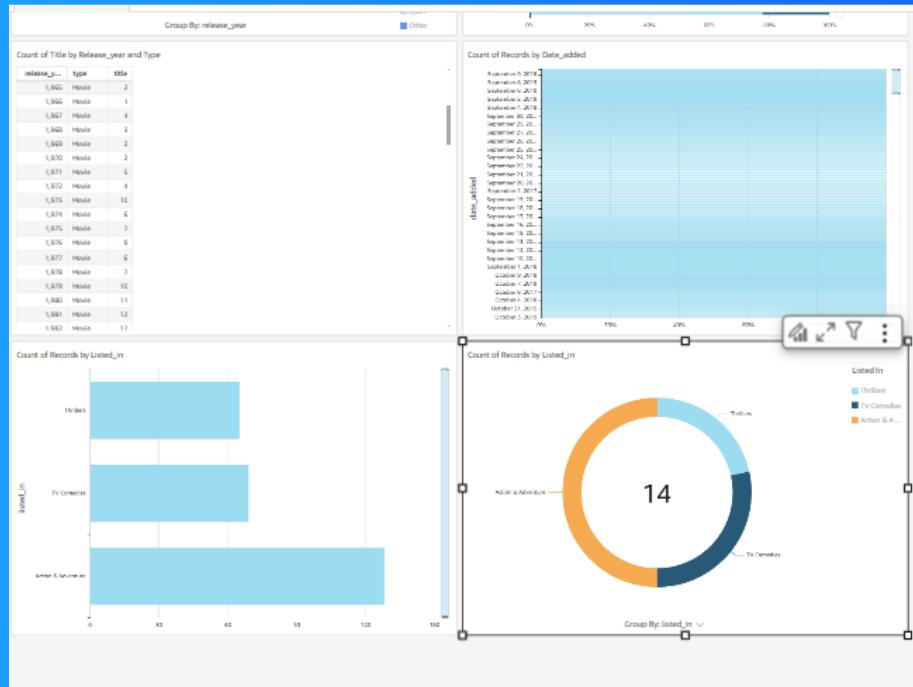




Using filters

Filters are useful for narrowing down data, focusing on specific subsets, and improving the clarity of visualizations by excluding irrelevant information. They help in making the analysis more targeted and insightful.

This visualization is a breakdown of Netflix shows by genre and release year. Here I added a filter by release year to focus on shows released within a specific time frame, helping to analyze trends over the years.

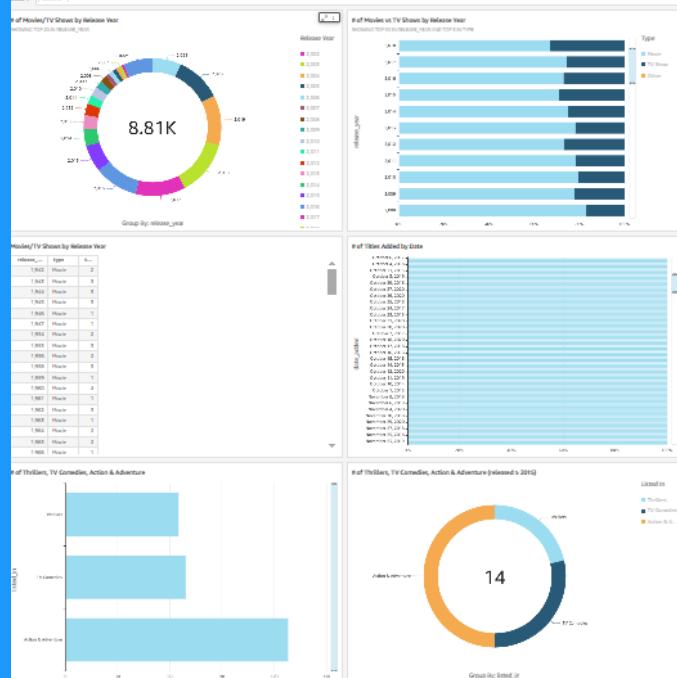




Setting up a dashboard

As a finishing touch, I have changed the name of the each dashboard based on the filters and date selected.

Did you know you could export your dashboard as PDFs too? I did this in the QuickSight console by opening my dashboard, clicking the Export button, selecting Download PDF, and then downloading the generated file.





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