



Visualize data with QuickSight

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Introducing Today's Project!

In this project, I will demonstrate how to make a dashboard using AWS Quicksight made from analysis of set of data of various netflix shows and movies. I'm doing this project to learn more about Data Analytics, Graphs and features of AWS Quicksight.

Tools and concepts

Services I used were S3 Bucket and Amazon QuickSight, Key concepts I learnt include using S3 Bucket URL to link files to Quicksight and use our dataset to generate informative visualizations and analyse data efficiently using the dashboard we made!

Project reflection

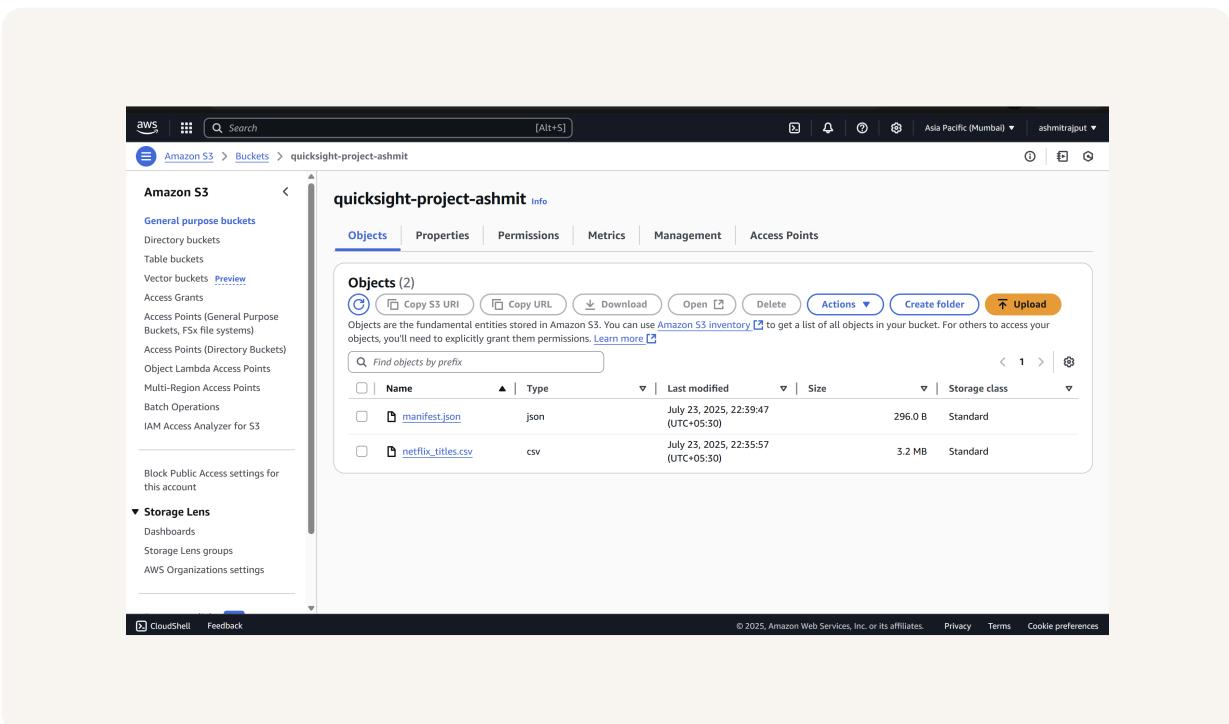
This project took me approximately 2 hours to complete including reading the documentation of the services I used and learning more about them while making this documentation alongside all the steps & noting down all the valuable information!

After this project, I plan to work on AWS IAM and security and several other Devops related projects. More projects on the way with even more complex services and tools.

Upload project files into S3

S3 is used in this project to store two files, which are a CSV file with the data related to netflix shows and movies, and a JSON file which will help us in connecting and framing our dataset to Quicksight and create relevant & apt visualizations.

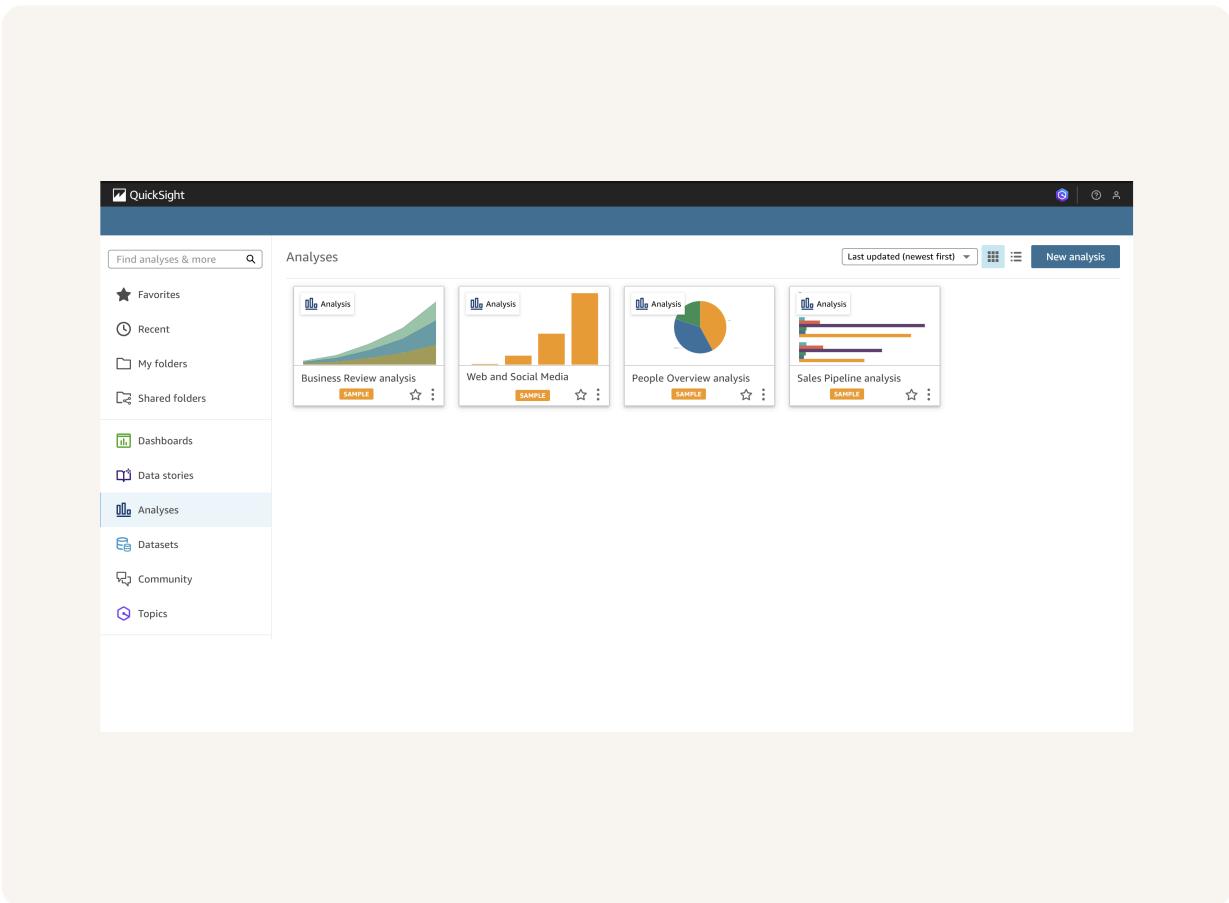
I edited the manifest.json file by changing the example S3 Bucket URL with the URL to my S3 Bucket, so it can be accessed, It's important to edit this file because that's how quicksight will be guided to my S3 Bucket and not some other false one.



Create QuickSight account

Creating a QuickSight account costs absolutely nothing and is a very easy process with just checking a few boxes and creating a username!

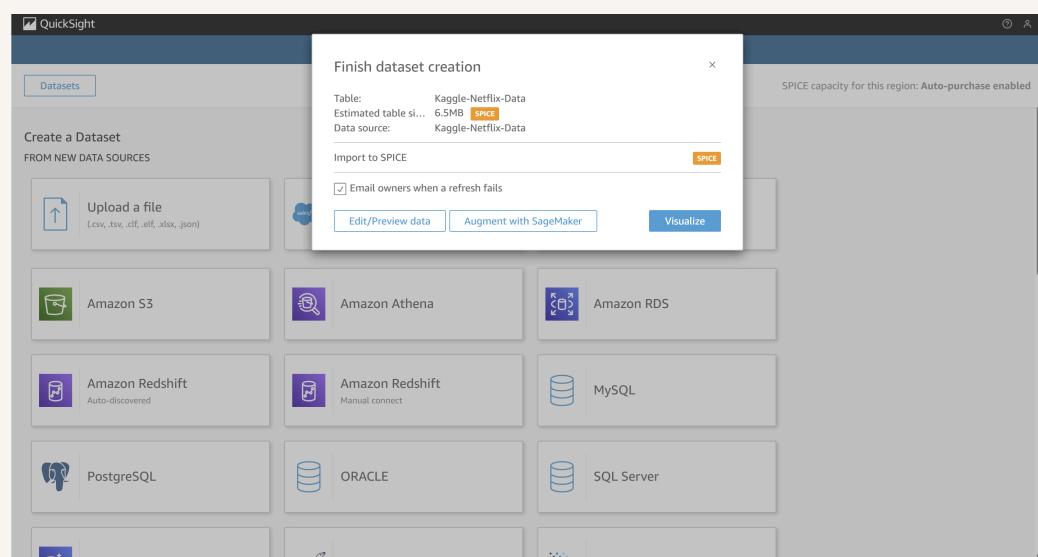
Creating an account took me less than 10 minutes with an easy process, and it costs nothing if you don't choose for updates that are recommended and are costly, the trial is absolutely free and user-friendly.



Download the Dataset

I connected the S3 bucket to QuickSight by clicking dataset option on the left navigation bar and chose a new dataset from my S3 Bucket and connected it to Quicksight by using the S3 Bucket object's URL to our modified JSON file.

The manifest.json file was important in this step because quicksight might get confused about the specifics of our dataset and manifest.json guides it through our data and helps in creating better visualizations efficiently.



My first visualization

To create visualizations on QuickSight, I connected my S3 bucket with Netflix Data and Manifest.json file, which organized our data for quicksight in a way that all the parameters showed up in our sheet and we just have to choose our visualizations!

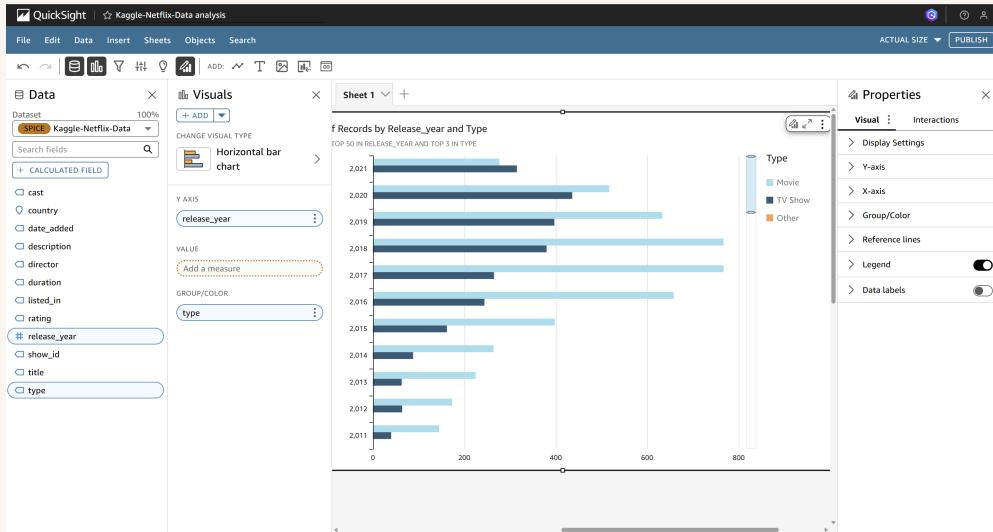
The graph shown here is a breakdown of the number of shows and movies released in different years up until 2021, with different colors showing whether it is a netflix show or a movie in that year. The graph is an effective of presenting our data.

I created this graph by dragging and dropping release year into our sheet and then a graph got created for our parameter where I decided to group by color one more parameter which was type (denoting whether it's a movie or a show).

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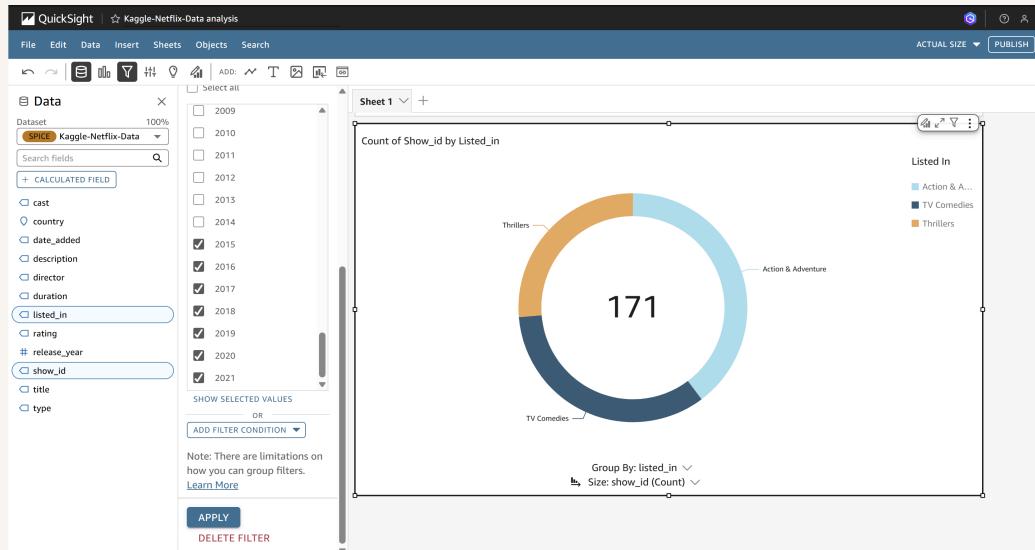
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Using filters

Filters are useful for truncating our data to only display the desired information in form of graphs on our chart, it is really helpful when we are looking for something specific in our dataset and can easily find it with the help of various filters.

This visualization is a breakdown of different properties of netflix movies and show titles, release year, etc, into a more organized format. Here I added a filter by accessing the filter feature and pin pointed information needed for our queries.



Setting up a dashboard

As a finishing touch, I added titles to all the visualizations and arranged them in a more organized manner, ready to publish. After I publish the Dashboard, I generate a PDF and download it on my device in a ready-to-share format in just a few steps

Did you know you can export your whole dashboard as a PDF. I did this by publishing the dashboard and generating its PDF easily using QuickSight in just a few steps.





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