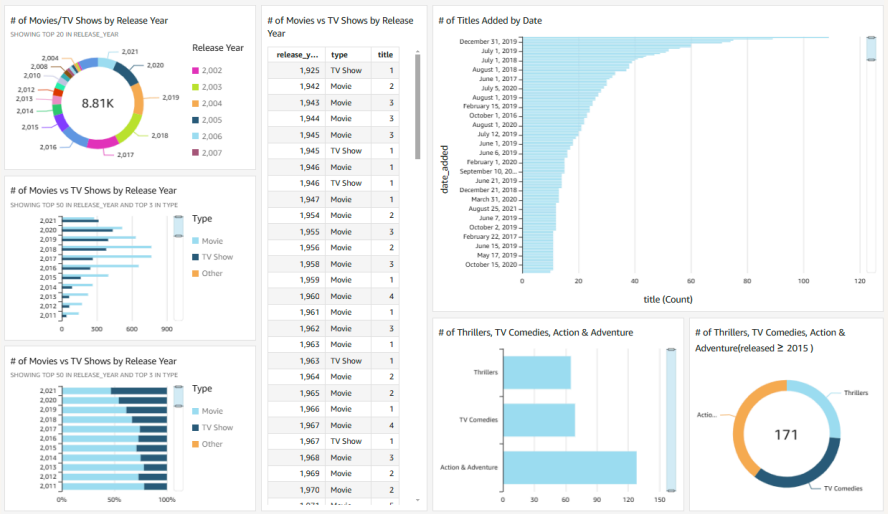
nextwork.org

Visualize data with QuickSight

E Navaneet Kumar



E Navaneet Kumar
NextWork Student

Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud BI tool for interactive dashboards, AI insights, and seamless AWS integration.

How I used Amazon QuickSight in this project

"I used Amazon QuickSight to connect an S3 bucket, filter data to exclude Movies and TV shows before 2015, and create a visualization breaking down three genres—Thrillers, TV Comedies, and Action & Adventure.

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

I didn't expect the manifest.json file to be crucial for correctly mapping and importing the S3 data into Amazon QuickSight.

This project took me...

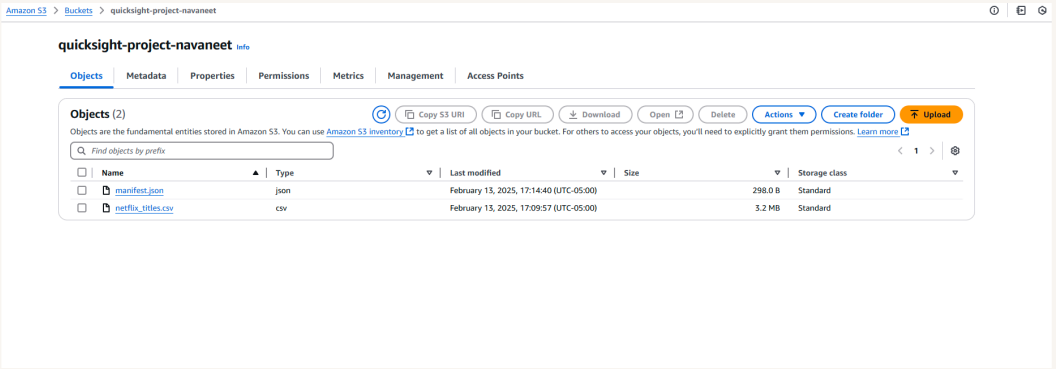
It took me almost 2 hours to complete this project.

E Navaneet Kumar
NextWork Student

Upload project files into S3

S3 is used in this project to store my dataset which is the netflix_titles.csv and manifest.json file

I edited the manifest.json file by updating the S3 URI of the dataset. It's important to edit this file because having an outdated S3 URI means that manifest.json would be directed to the wrong address.

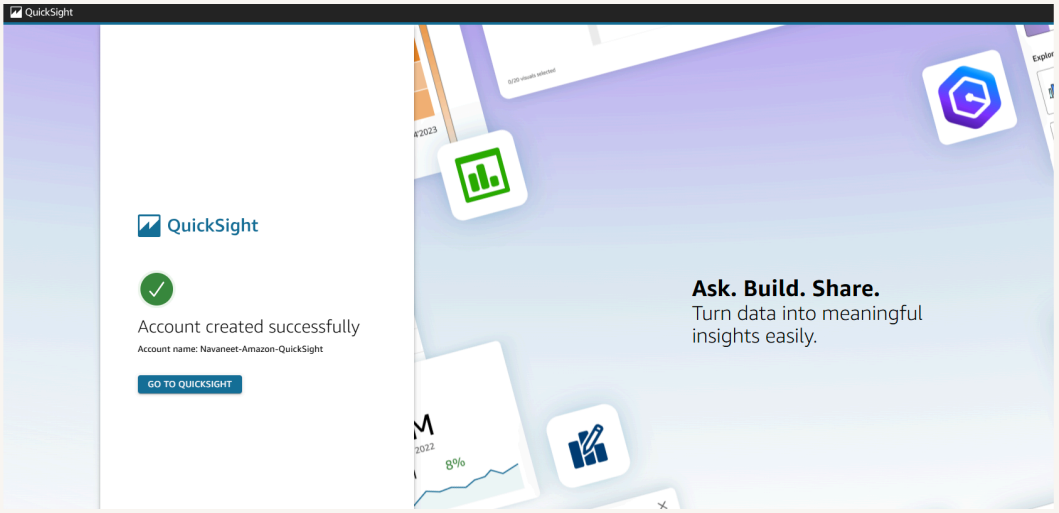


E Navaneet Kumar
NextWork Student

Create QuickSight account

Creating a QuickSight account costs free, but adding certain features or add-ons may incur a monthly charge of $500.

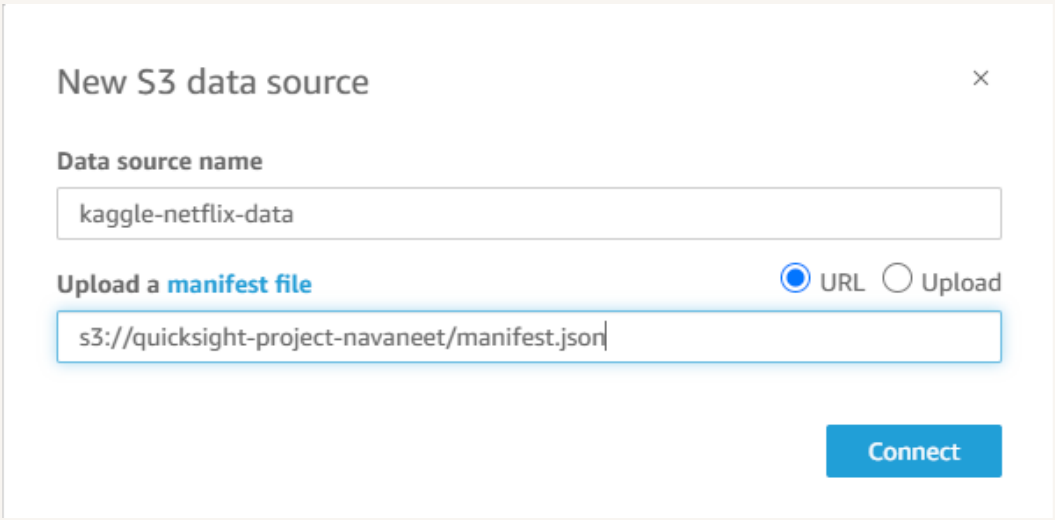
Creating an account took me a few minutes to set up and waiting for account creation was pretty quick!



Download the Dataset

I connected the S3 bucket to QuickSight by visiting the QuickSight console, navigating to Manage Data Sources, selecting S3, granting necessary permissions, and creating a new dataset from the S3 bucket files.

The manifest.json file was important in this step because it defines the structure of the data, specifying the S3 file locations, format, and parsing options for QuickSight to correctly interpret and import the dataset.



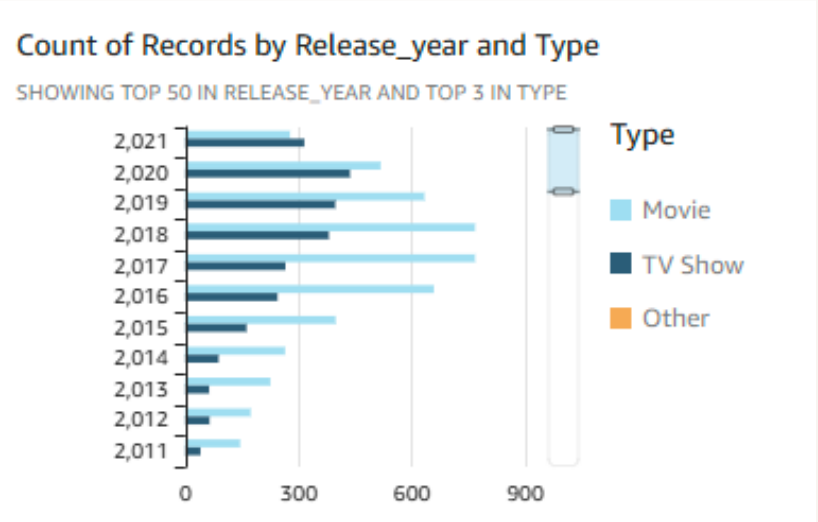
E Navaneet Kumar
NextWork Student

My first visualization

To create visualizations on QuickSight, I have to drag relevant fields into the QuickSight dashboard's AutoGraph space.

The graph shown here is a breakdown of Movies vs TV shows for every release year.

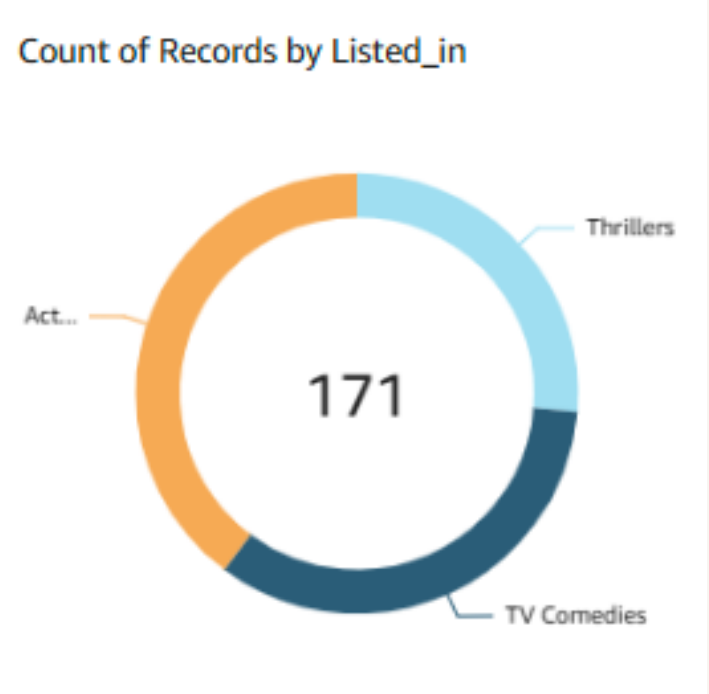
I created this graph by dragging and dropping the release year on the y-axis and making the type in the grouping variable.



Using filters

Filters are useful for specifying conditions that refine the dataset by including or excluding data based on defined criteria, helping to focus analysis on relevant information.

This visualization is a breakdown of three genres -Thrillers, TV Comedies, and Action and Adventure. Here I added a filter by excluding Movies and TV shows released before 2015, focusing the visualization on three genres from 2015 onwards.

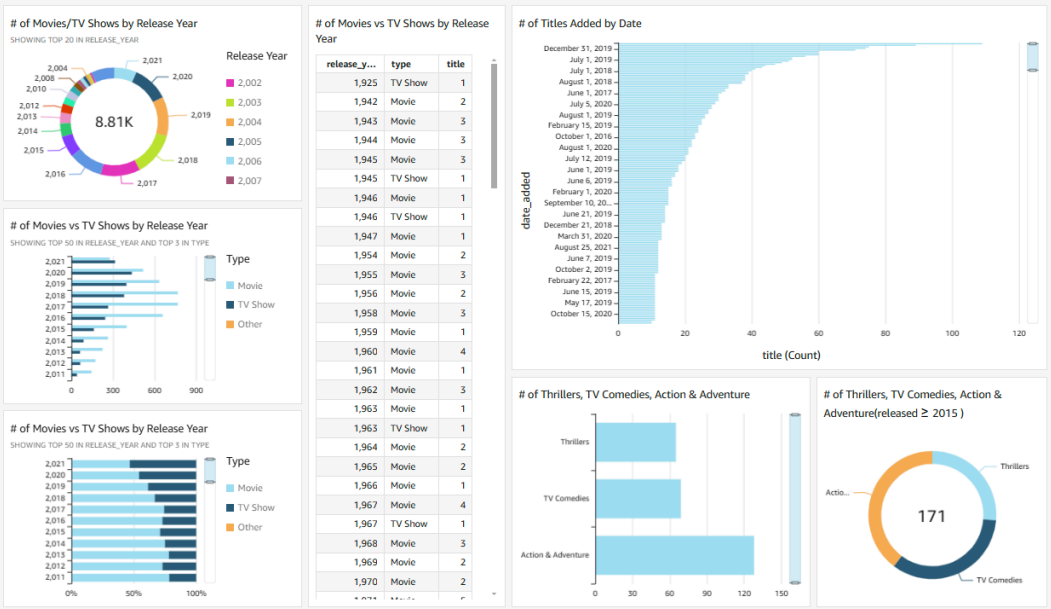


E Navaneet Kumar
NextWork Student

Setting up a dashboard

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

Yes, I did this by clicking on the export.



NextWork.org

Everyone should be in a job they love.

Check out nextwork.org for more projects