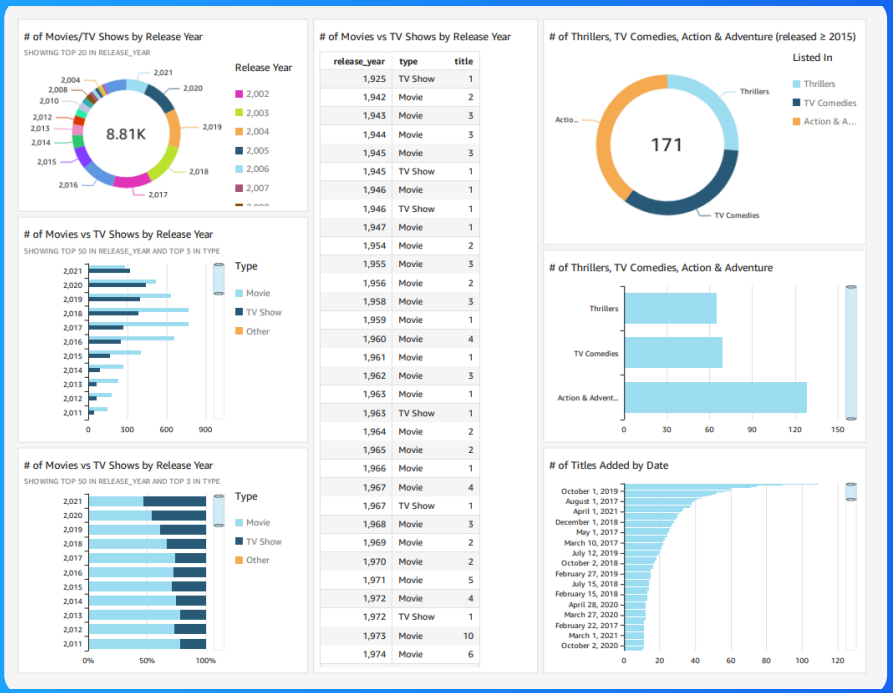
NextWork.org

Visualize data with QuickSight

H HARSHITHA P



H
HARSHITHA P
NextWork Student

Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based BI tool that helps create interactive dashboards and visualizations. It’s useful for analyzing data, sharing insights securely, and scaling analytics for businesses.

How I used Amazon QuickSight in this project

I used Amazon QuickSight to create interactive visualizations and dashboards from a dataset stored in Amazon S3. It helped analyze Netflix data with charts, filters, and insights to answer specific queries.

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

One thing I didn't expect in this project was encountering errors while connecting the dataset to Amazon QuickSight. Resolving issues like permissions and manifest file formatting taught me valuable troubleshooting skills.

This project took me...

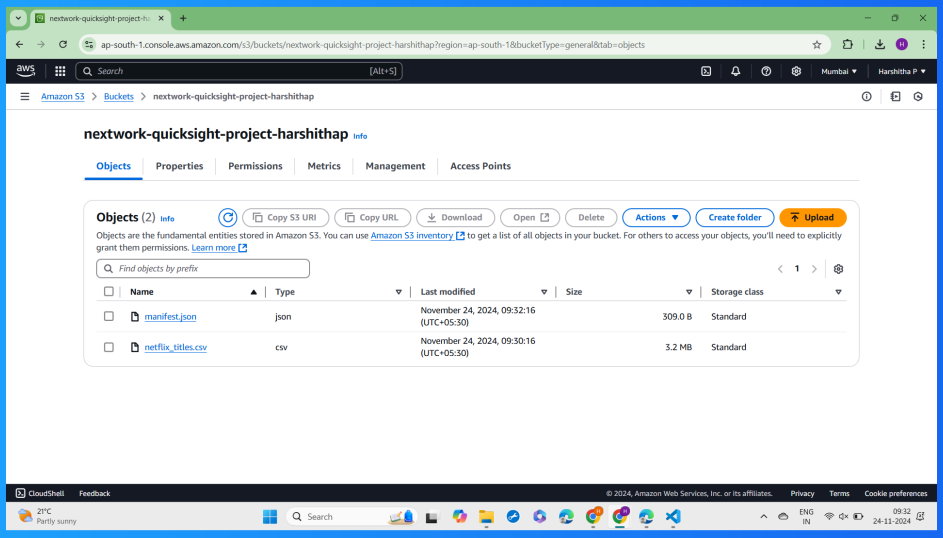
This project took me around 2 hours to complete. It involved uploading the dataset, setting up Amazon QuickSight, creating visualizations, and troubleshooting a few issues along the way.

HARSHITHA P
NextWork Student

Upload project files into S3

S3 is used in this project to store two files, which are netflix_titles.csv and manifest.json

I edited the manifest.json file by adding the S3 URL of netflix_titles.csv. It's important to edit this file because it will help to create a connection between amazon quicksight and S3



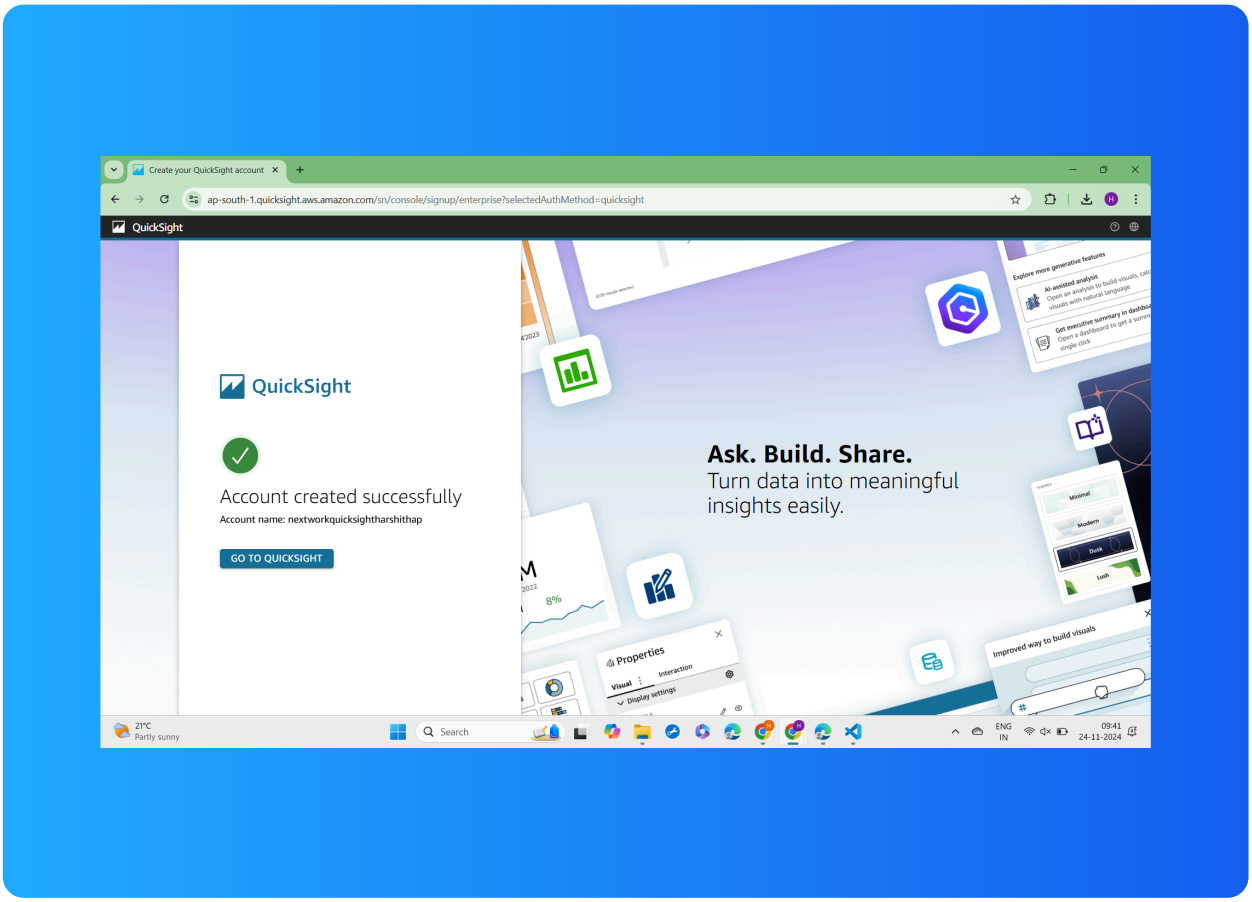
H

HARSHITHA P
NextWork Student

Create QuickSight account

It costed no money because I used free trial.

Creating a QuickSight account took me almost 2 minutes.

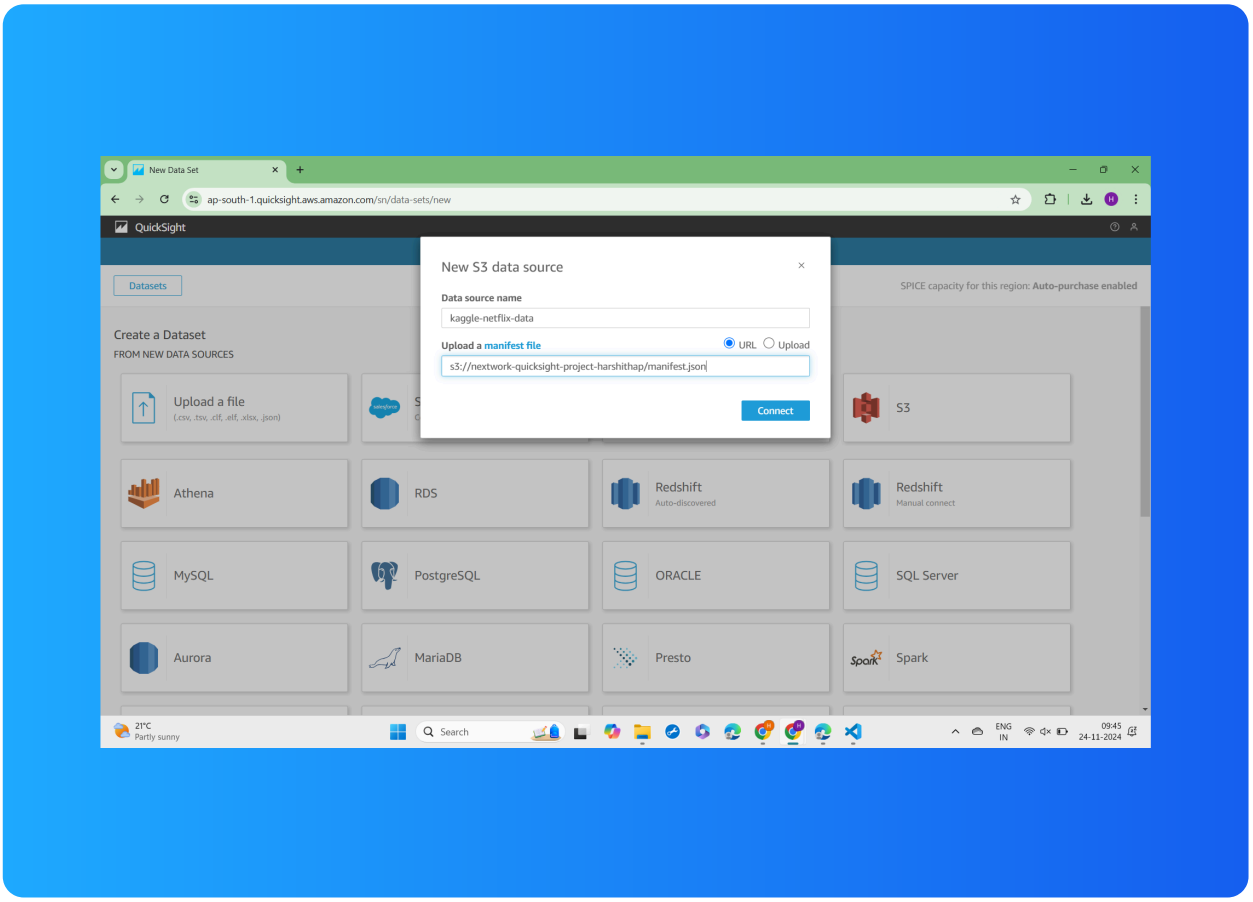


HARSHITHA P
NextWork Student

Download the Dataset

I connected the S3 bucket to QuickSight by configuring QuickSight to access the S3 bucket using the S3 URL of the manifest.json file.

The manifest.json file was important in this step because it specifies the location and structure of the data files in the S3 bucket.



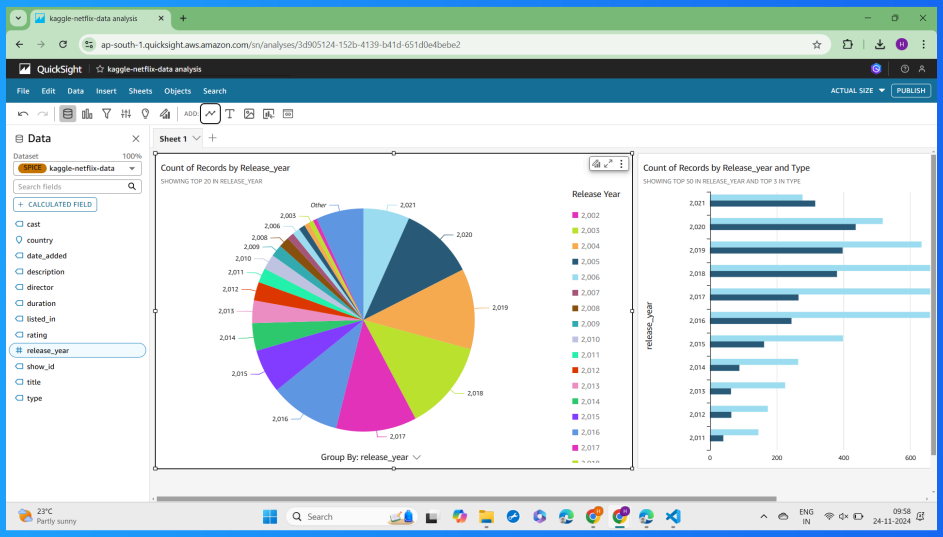
HARSHITHA P
NextWork Student

My first visualization

To create visualizations on QuickSight, I selected fields from the dataset, dragged them into the appropriate axes, and customized the chart type. I added filters and groupings to refine the data and generate insights.

The chart shown here is a breakdown of Netflix titles by release year and type (TV shows vs movies). It highlights trends over time, showing how many titles were added each year and their distribution by type.

I created this graph by dragging and dropping the 'release_year' field into the X-axis and the 'type' field into the Group/Color heading. This setup allowed me to visualize Netflix titles by year and type.

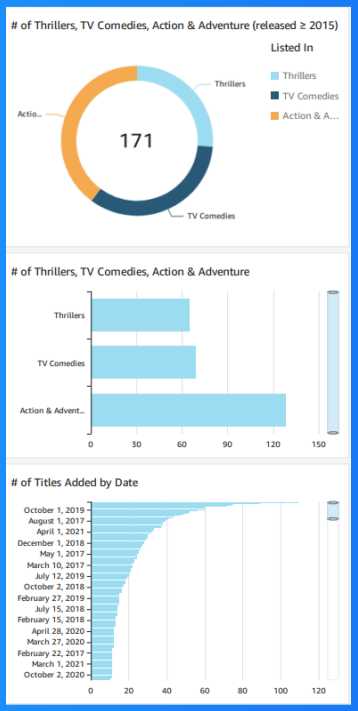


H
HARSHITHA P
NextWork Student

Using filters

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

This visualization is a breakdown of Netflix titles by release year and type (TV shows vs movies). Here, I added a filter by release_year to focus on data from 2015 and later, ensuring only relevant entries are displayed.



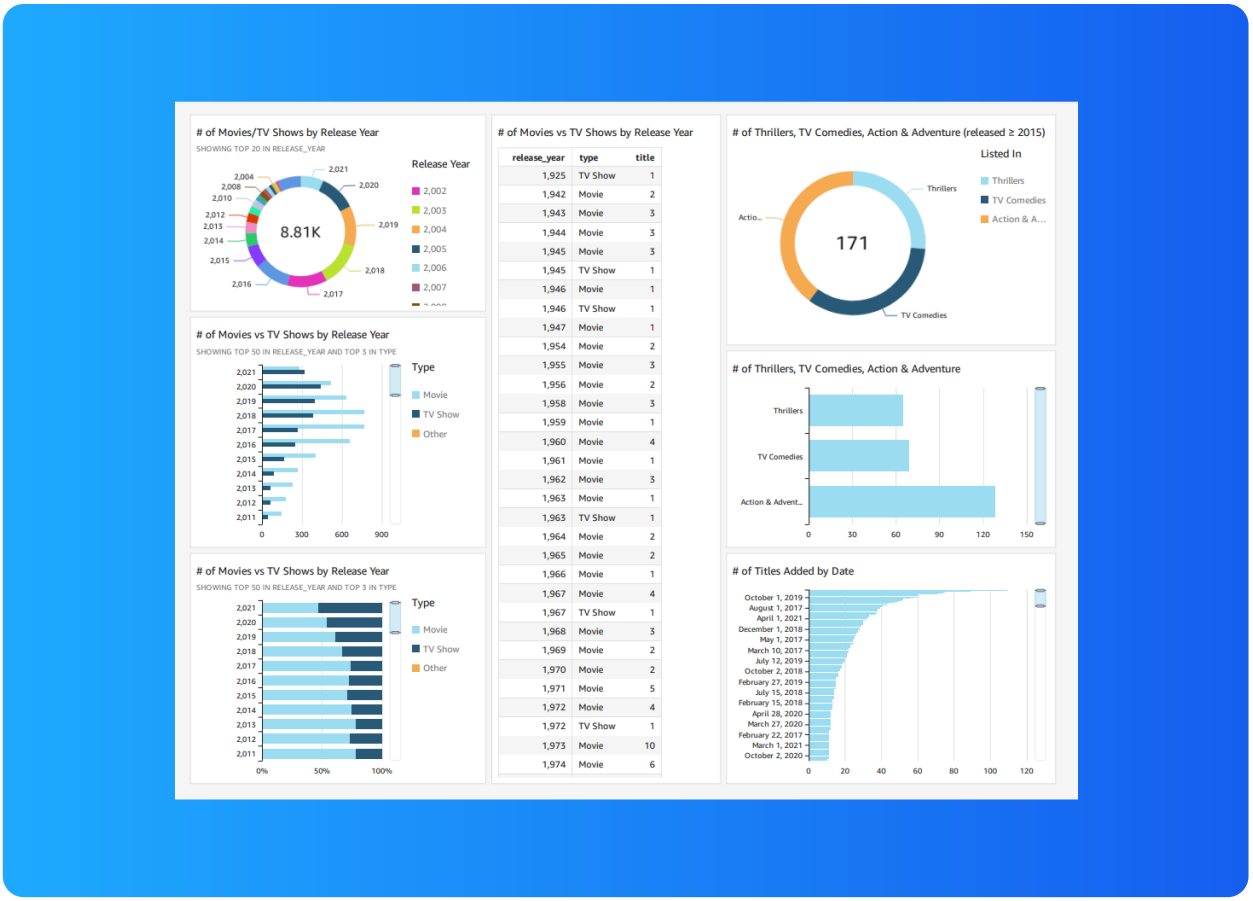
H

HARSHITHA P
NextWork Student

Setting up a dashboard

As a finishing touch, I updated chart titles to make them clear, resized and aligned visuals for better readability, and ensured the layout was clean and professional before publishing the dashboard.

Did you know you could export your dashboard as PDFs too? I did this by clicking the Export icon on the top right, selecting "Generate PDFs," waiting for the file to process, and then downloading it.



Everyone should be in a job they love.

Check out nextwork.org for more projects