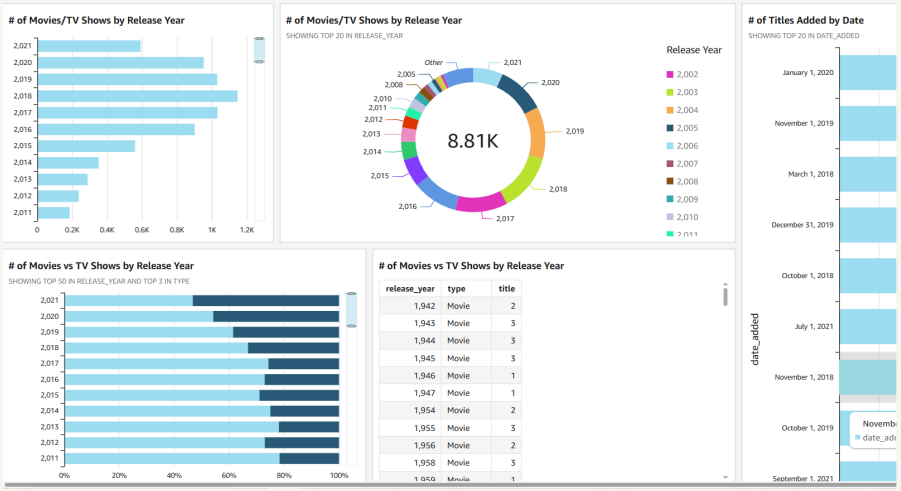
nextwork.org

Visualize data with QuickSight

MU muzyavida@gmail.com



Introducing Today's Project!

In this project, I will demonstrate how to visualize data using Amazon QuickSight by connecting a data set which i will upload through an S3 bucket, I'm doing this project to learn how to use Amazon QuickSight and to visualize data efficiently.

Tools and concepts

Services I used were Amazon S3(Simple Storage Service) and Amazon Quicksight. Key concepts I learnt include visualization, filtering, manifest.json filing and analyzing of data.

Project reflection

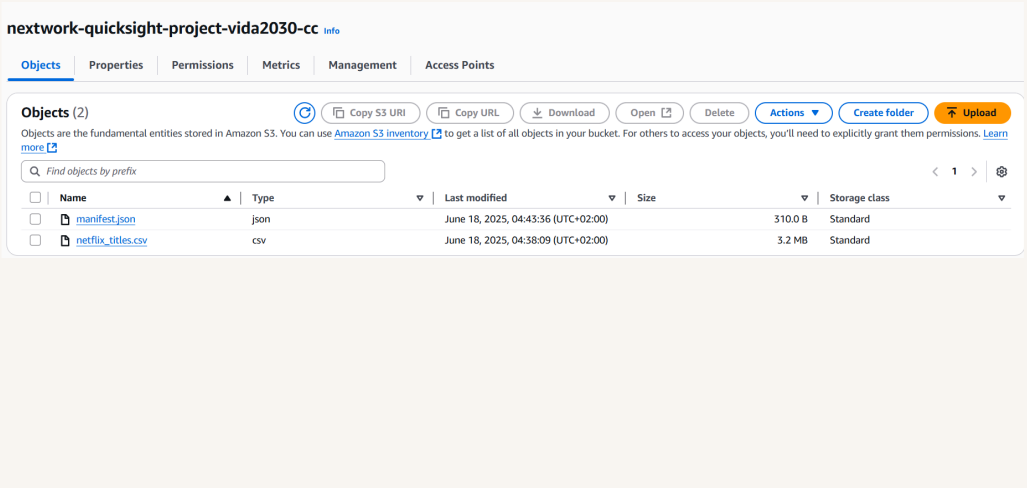
This project took me approximately 2 hours to finish.The most challenging part was answering the spwcific data questions from netflix but it was most rewarding to create the charts and display the data answering these questions.

After this project, I plan to work on the next projet in the beginners challenge.

Upload project files into S3

S3 is used in this project to store two files, which are cvs netflix file which has the dataset with all the data collected from netflix and the manifest.json file which has the strufcture and format of how the data in the cvs should be displayed.

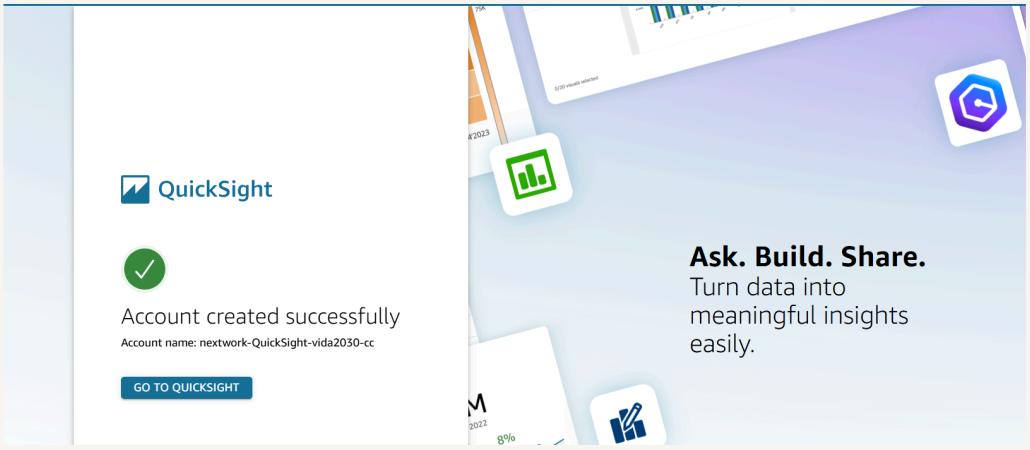
I edited the manifest.json file by copying the s3 bucket uri for the nextflix cv file and putting it in the uri section in the manfest.json file, this was done to make sure the manifest.json file has the exact address of the cvs file.



Create QuickSight account

Creating a QuickSight account cost $0 because it has a 30 day free trial. Alao there are extra add ons which they can ask you to pay for but I did not have to.

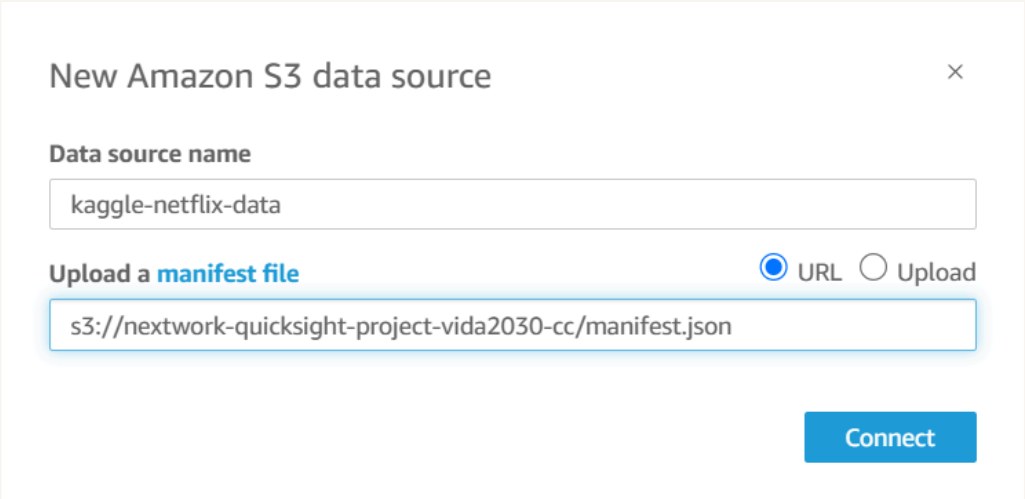
Creating an account took me 2 minutes to open a QuickSight account. The process was clear and smoothe to follow all I had to do was follow Nextworks instructions.



Download the Dataset

I connected the S3 bucket to QuickSight by visiting the page under the "Datasets" panel. On this page there was a number of external apps but the S3 option was amongst them and that is the one I chose because that is where my dataset was located.

The manifest.json file was important because it is the file that has the code to instruct Quicksight on how the structure and format of the data should be displayed. Withouth this file QuickSight would be confused on how to structure the data.

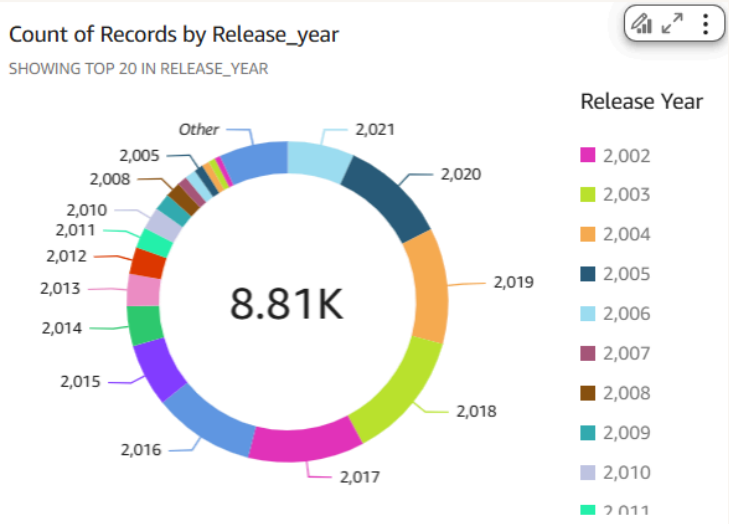


My first visualization

To create visualizations on QuickSight, I used the datasets provided from our file on the left side of the dashboard to choose which information to input and I use the visual options on the left side to choose from the different charts and tables

The chart/graph shown here is a breakdown of the count of records or number of releases by netflix in each year with the total number of releases being 8.81k which is shown in the middle of the donut chart.

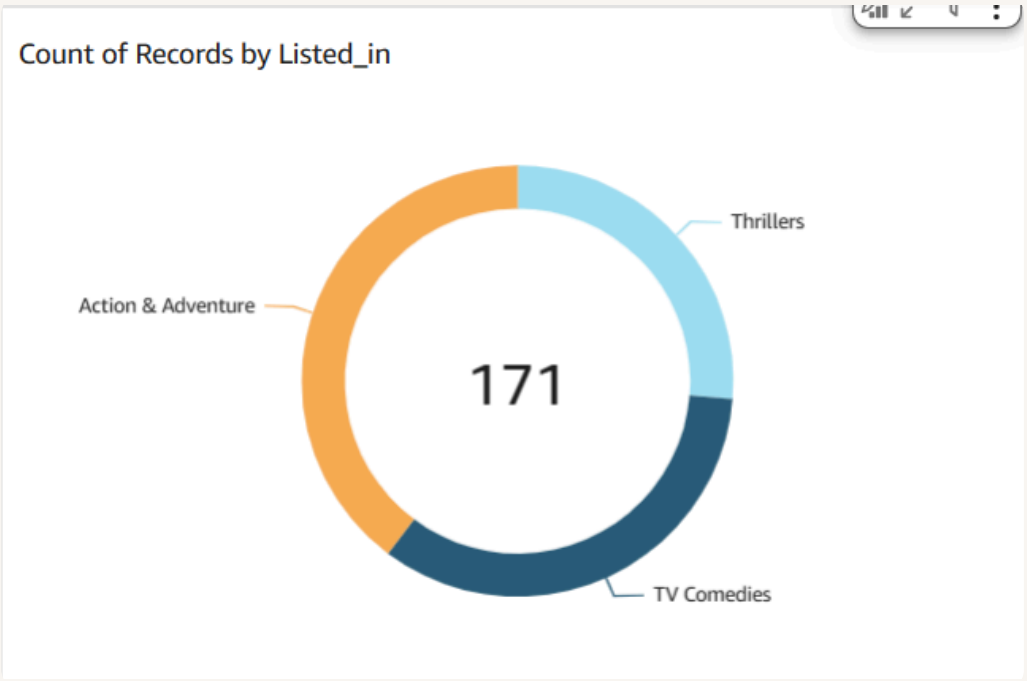
I created this graph by dragging and dropping the release year data set onto the group visual section and I chose the type of chart to be displayed in the visual section and it was a donut chart with all the lovely colours.


Count of Records by Release_year
SHOWING TOP 20 IN RELEASE_YEAR
Release Year
2,002
2,003
2,004
2,005
2,006
2,007
2,008
2,009
2,010
2,011
Other
2,021
2,020
2,019
2,018
2,017
2,016
2,015
2,014
2,013
2,012
2,011
2,010
2,008
2,005
8.81K

Using filters

Filters are useful for narrowing down to the specific data being sought out. This makes it easier to make better business decisions as it is easy to project data accurately and more specifically.

This is a breakdown of the total number of action and adventure, thriller and tv comedy shows released from the years 2015 going up made by using these filters: listed in and release year and I further specified the genre of shows and the years 2015

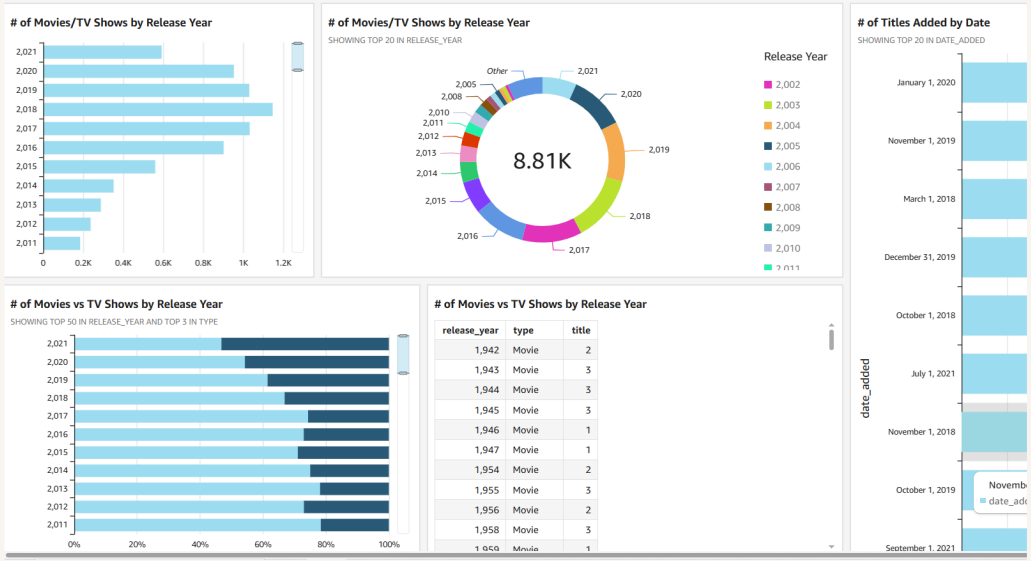


MU
muzyavida@gmail.com
NextWork Student

Setting up a dashboard

As a finishing touch, I put the correct titles on each chart on the dashboard and moved the charts around so they can fit perfectly.

Did you know you could export your dashboard as PDFs too? I did this by clicking the export button at the top left corner after I published my dashboard and it is great that I have my own copy of my dashboard and my work.



The place to learn & showcase your skills

Check out nextwork.org for more projects