How I used Amazon QuickSight to visualize data 📊

[kojo Nhyira Dey]

BEFORE WE START...

What is Amazon QuickSight?

What it does:

- **Amazon QuickSight helps you analyse data and create visualisations easily. For Large volumes of data**

Why it's useful:

- Makes data analysis very simple with a more user friendly interface

How I'm using it in today's project:

- I used it to analyze over 80,000 raw nextflix data

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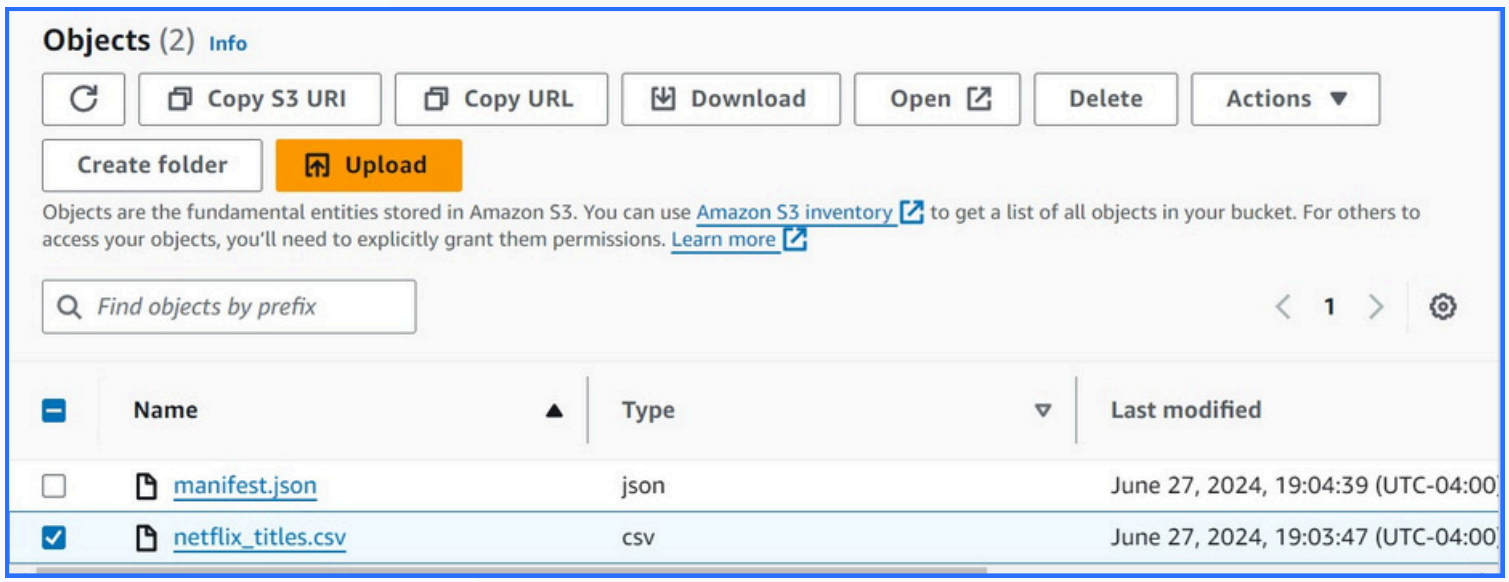
STEP ONE

Upload your dataset and a manifest.json file into S3

- S3 is used in this project to store project files and data
- I edited the manifest.json file by copying my s3 url from the console and updating the dataset.Its important to make sure manifest.json is directing to the s3 bucket and you can only do this by making sure the s3 url is the exact same url in the manifest.json data set

Here's my bucket with the CSV file and manifest.json



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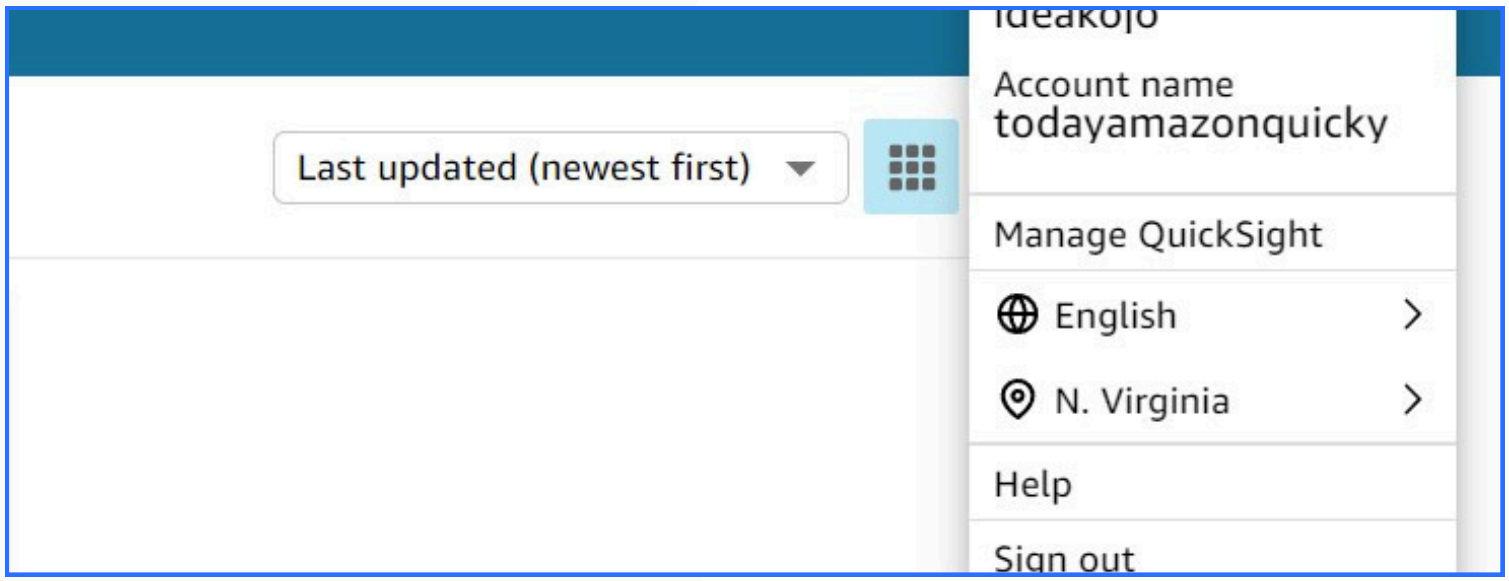
STEP TWO

Create your Amazon Quicksight account

- After creating Quicksight you would get the quicksight dashboard with your account name and also a congratulatory message. It cost $0 to create Quicksight account.
- Creating Quicksight should take less than 5 mins
- I also had to enable QuickSights access to S3 because because my data is in the s3 bucket and that is what we are going to analyze

Voila! I created my QuickSight account successfully



STEP THREE

Connect your S3 bucket to Amazon QuickSight

- I connected the S3 bucket to QuickSight by First selecting data set, New data and choose S3 service .
- The manifest.json file was important in this step because it tells quicksight the location of your data and how they are organized.
- it also describes data with attriubutes so quicksight knows to analyse the data

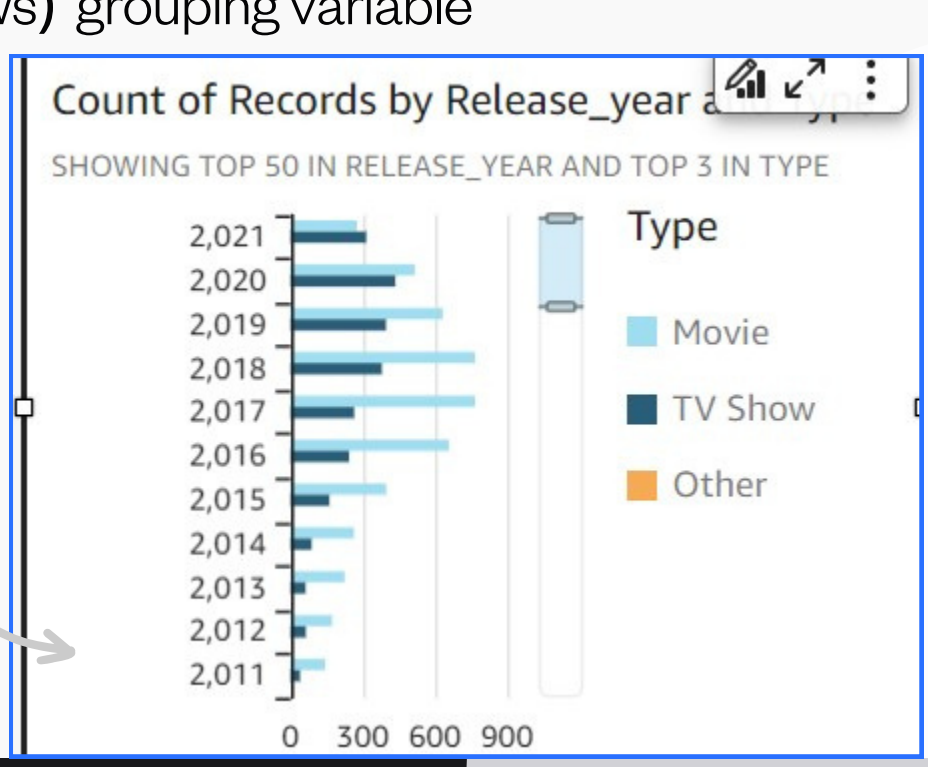
Entering the manifest.json URL

STEP FOUR

Let's make visualisations!

- To create visualisation on QuickSight, you'll have to drag your required field and paste is in the quicksight auto graph.That would give you a visual based on the visual type you choose.Eg donut, Horizontal
- The chart/graph shown here is a breakdown showing number of movies and shows released in a particular year graph
- I created this graph by putting the release year on the y axis and type that contains (movies and Tv shows) grouping variable

One of my first visualisations



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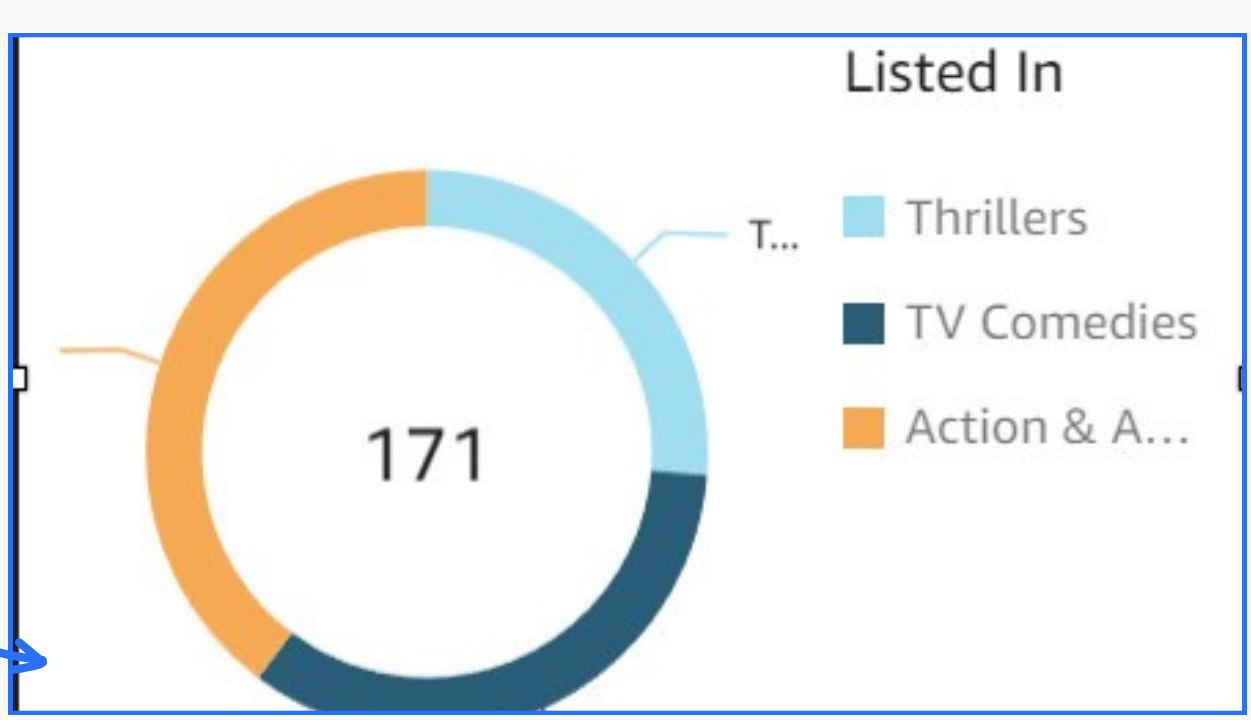
STEP FIVE

Using filters

- Filters are useful for when you want to trim your data to a specific range of values. Eg Movies That were released after 2015
- Here I added a filter by excluding Action &adventure , Tv Comedies and Thrillers that where released after 2015

A visualisation set up after filtering for realease date and listed categories



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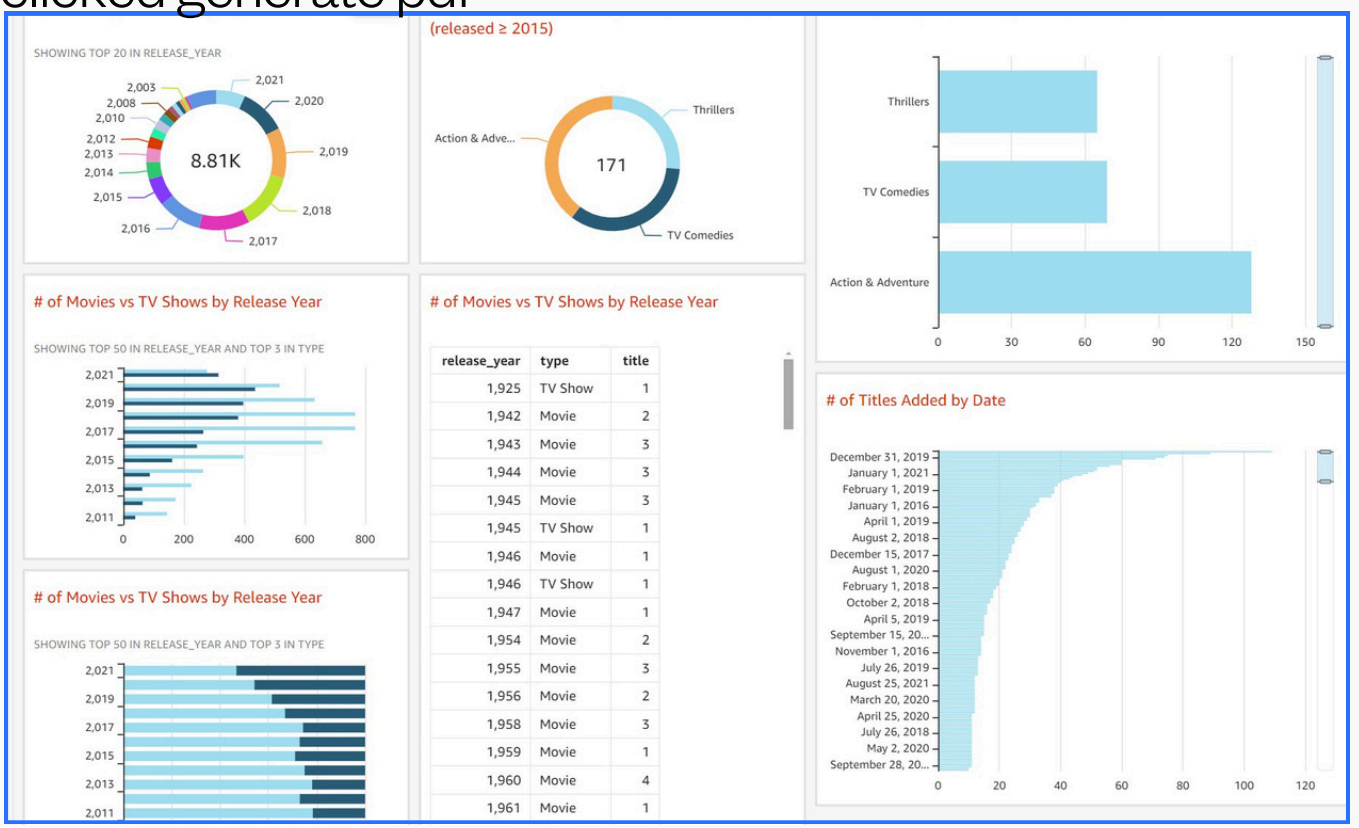
STEP SIX

Set up your dashboard!

- As a finishing touch, I gave individual graphs a title so that the meaning of each chat is clear to the reader
- Did you know you could export your dashboard as PDFs too? I did this by cliking th export button at the top right corner and clicked generate pdf

Voila! Here's the finished dashboard!



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My Key Learnings

01 Quicksight is an Amazon service that can be used in data analysis and visualization

02 S3 bucket stores your data including the manifest.json and the data set itself. The manifest tells Quickset the location of your data and how they are to b organized

03 Creating on Quicksight is very easy with an interactive dashboard

04 Dashboard can be published directly to email and also saved as pdf files for easy sharing

05 Graphs can be duplicated for easy sizing

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Final thoughts...

- This project took me 45mins to complete. Documentation took me. 35mins

- Delete EVERYTHING at the end! Let's keep this project free :)

- Now that I know how to use QuickSight, in the future I'd use it to analyze and visualize large volumes of data

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