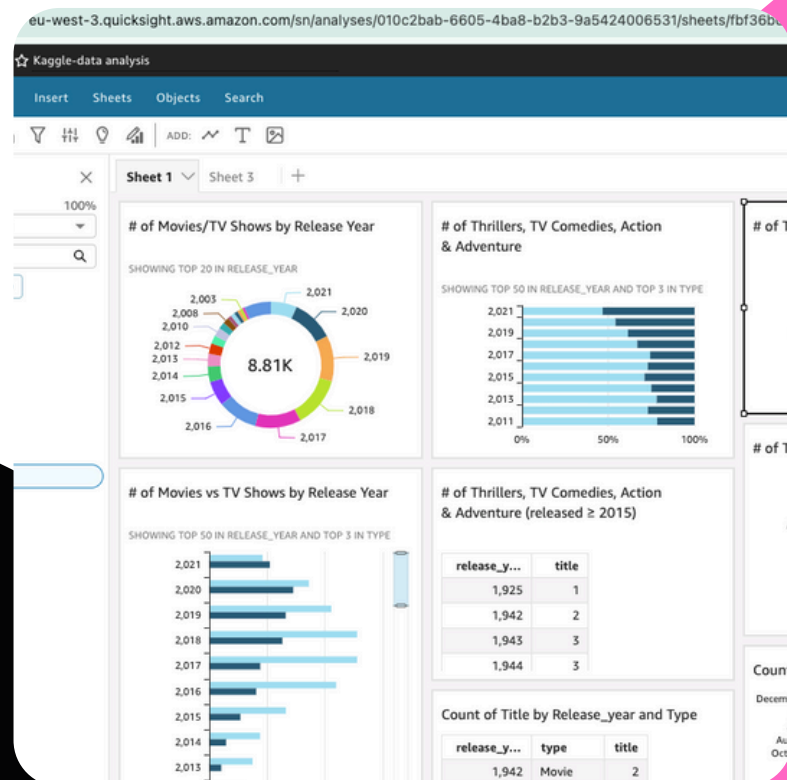
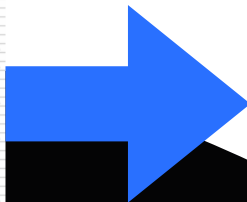


How I used Amazon QuickSight to visualize data



Rasha M.

id	name	type	release_year	release_date	runtime	genre	country	language	director	cast	box_office
1	Toy Story	Movie	1995	1995-10-30	81 min	Animation	USA	English	John Lasseter	Tom Hanks, Tim Allen, Annie Potts	\$373,554,069
2	Toy Story 2	Movie	1999	1999-10-30	93 min	Animation	USA	English	John Lasseter	Tom Hanks, Tim Allen, Annie Potts	\$474,171,156
3	Toy Story 3	Movie	2010	2010-06-18	103 min	Animation	USA	English	Lee Unkrich	Tom Hanks, Tim Allen, Annie Potts	\$1,066,964,000
4	Toy Story 4	Movie	2019	2019-06-21	100 min	Animation	USA	English	Josh Cooley	Tom Hanks, Tim Allen, Annie Potts	\$1,073,361,348
5	Toy Story Toons: Hooray for Cowabunga!	Short	2011	2011-07-15	7 min	Animation	USA	English	John Lasseter	Tom Hanks, Tim Allen, Annie Potts	\$0



BEFORE WE START...

What is Amazon QuickSight?

What it does:

- **Easily build data visualizations and dashboards.**

Why it's useful:

- No code is needed to create an excellent dashboard with a good design

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

- I will create a dashboard using the Netflix dataset from Kaggle



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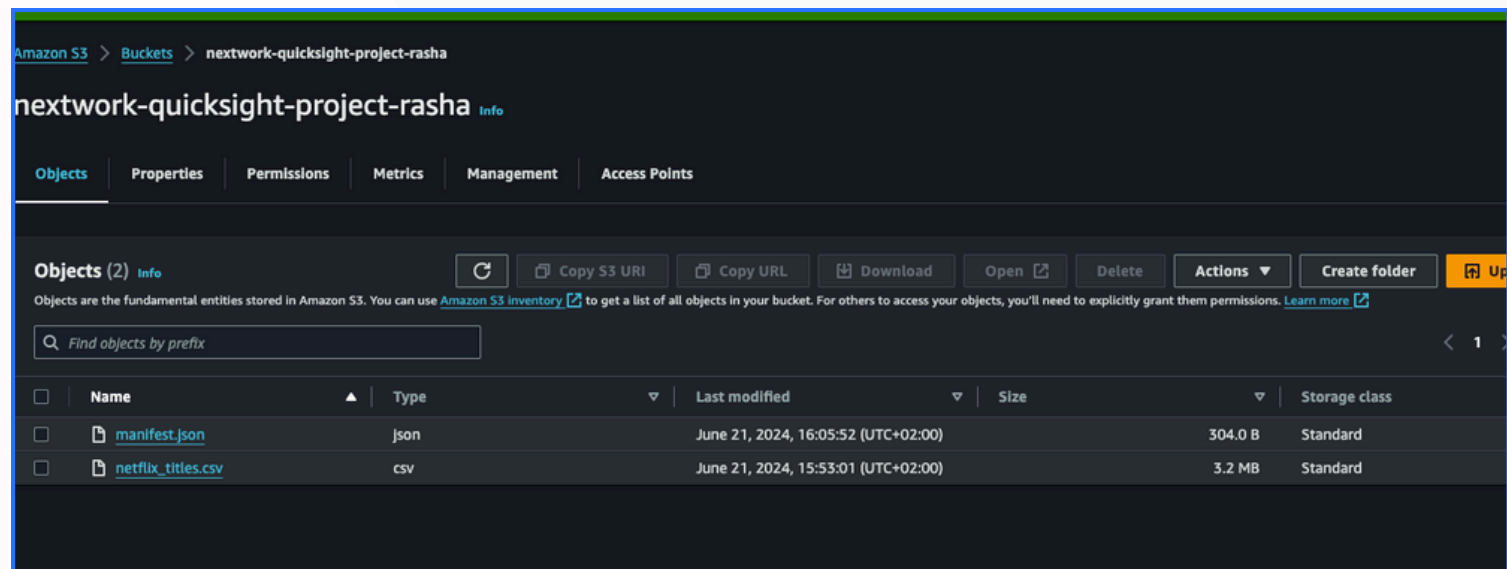


STEP ONE

Upload your dataset and a manifest.json file into S3

- S3 is used in this project to store the CSV file containing Netflix data.
- I edited the manifest.json file by replacing the placeholder URL with the actual S3 URL of my dataset because it tells QuickSight where to find your data in S3. Without the correct URL, QuickSight cannot access your dataset for visualizations.

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



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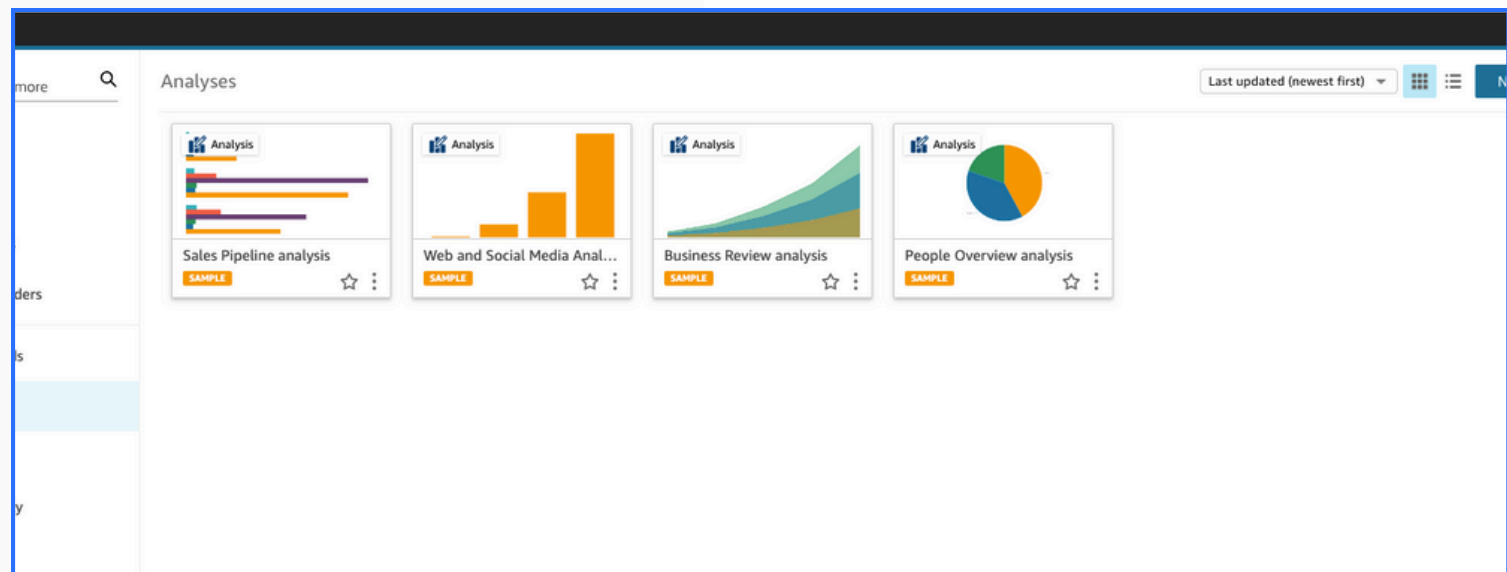


STEP TWO

Create your Amazon Quicksight account

- Does it cost \$ to use QuickSight? Amazon offers a free trial !
- How long did it take to create an account? 10 minutes
- I also had to enable QuickSight's access to S3 because I had created an S3 Bucket to store the dataset

Voila! I created my
QuickSight account
successfully



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STEP THREE

Connect your S3 bucket to Amazon QuickSight

- Connected S3 with QuickSight: Used the bucket name and manifest.json to guide QuickSight to the data.
- manifest.json is Key: Tells QuickSight where the data is store in S3.

Entering the
manifest.json URL

The screenshot displays the Amazon QuickSight interface. On the left, a modal window titled 'New S3 data source' is open. It contains a 'Data source name' field with the value 'Kaggle-data[]'. Below this, there is a section 'Upload a manifest file' with two radio buttons: 'URL' (selected) and 'Upload'. The 'URL' option is linked to a text input field containing the S3 path 's3://nextwork-quicksight-project-rasha/manifest.json'. A 'Connect' button is at the bottom right of the modal. On the right, the 'Finish dataset creation' panel is visible. It shows the 'Table' as 'Kaggle-data', the 'Estimated table size' as '6.5MB', and the 'Data source' as 'Kaggle-data'. There is an orange 'SPICE' badge next to the size. Below this, the 'Import to SPICE' section has a checked checkbox for 'Email owners when a refresh fails'. At the bottom of this panel are two buttons: 'Edit/Preview data' and 'Augment with SageMaker'.



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STEP FOUR

Let's make visualisations!

- To create visualizations on QuickSight, you'll have to: Choose the right chart/graph and drag and drop data fields onto the workspace.
- The chart/graph shows a breakdown of TV shows vs movies for every year and the number of released movies and TV shows per year
- I created this graph by Dragging the "release_year" field to the Y-axis.

One of my first
visualisations



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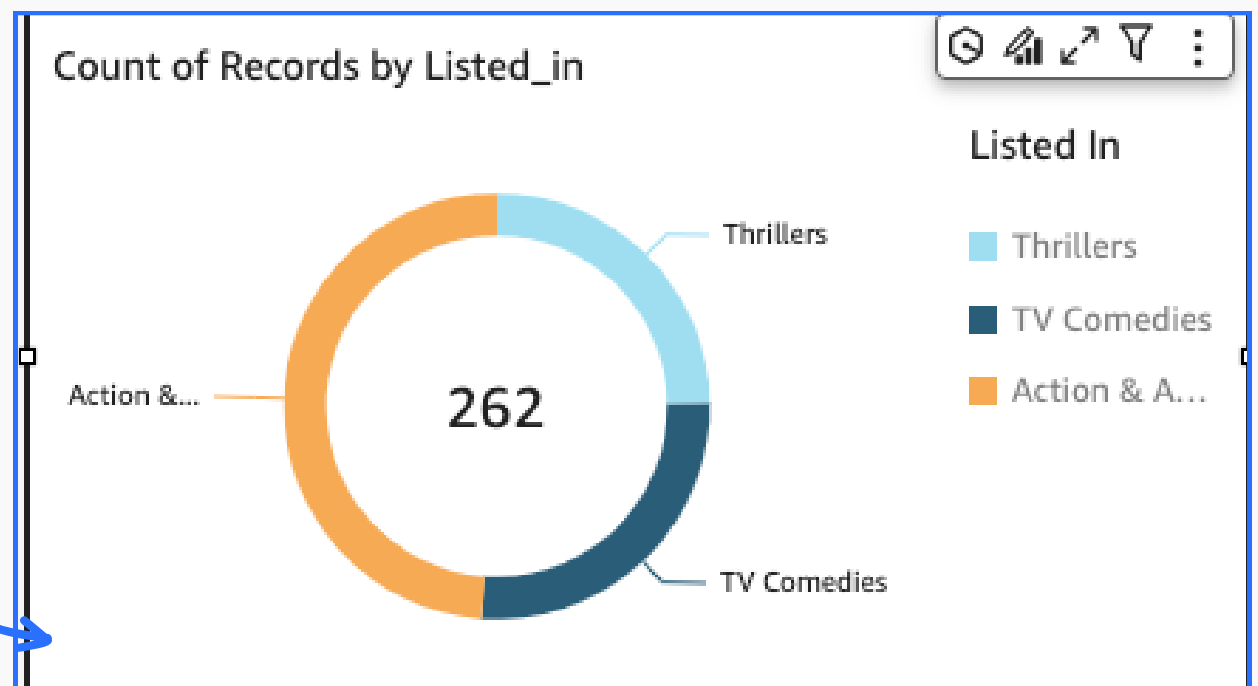


STEP FIVE

Using filters

- Filters are useful for focusing on specific data.
- Here I added a filter by release year (2015 or later) and content type (Action & Adventure, TV Comedies, or Thrillers).
- This helped me create a visualization focusing on how many shows/movies in those categories were released in 2015 or after.

A visualisation set up
after filtering for...



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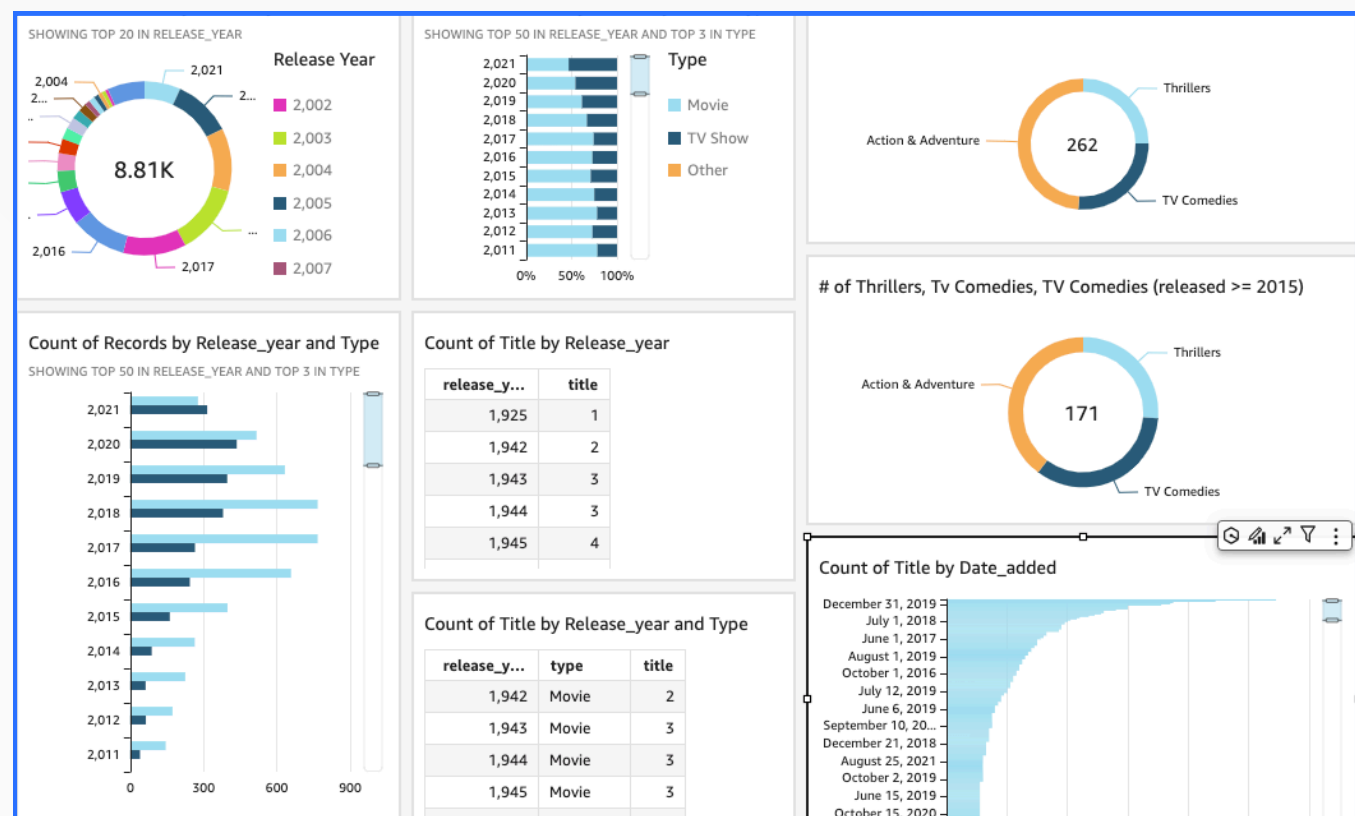


STEP SIX

Set up your dashboard!

- As a finishing touch, I decided to create a dashboard to combine different visualizations.
- Did you know you could export your dashboard as PDFs too? I did this by clicking the "Export" icon and selecting "Generate PDF."

Voila! Here's the finished dashboard!



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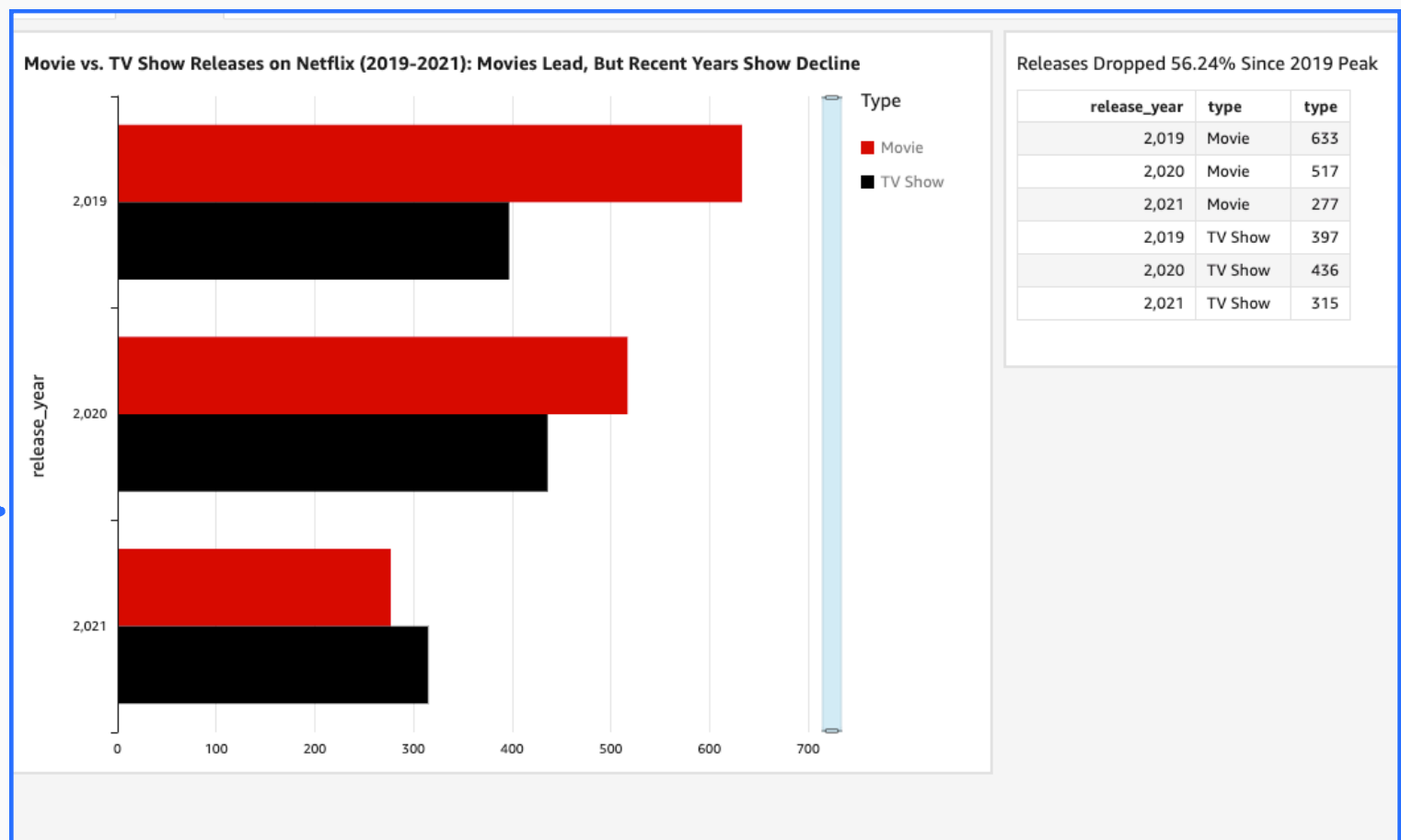
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With a simple dataset, we can tell 2 different story

While bar charts are great for showing trends, other data visualizations can be more impactful depending on the story you're trying to tell and your audience.

I leveraged Netflix's iconic red and black color palette to create a visually appealing bar chart.



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My Key Learnings

01

QuickSight is like an online tool for making charts and reports from your data.

02

Connecting S3 to QuickSight with a JSON file that helps QuickSight understand how your data is organized.

03

Creating visualizations on QuickSight was pretty straightforward! It offered a variety of options and felt user-friendly.

04

I learned you can create and share interactive dashboards with QuickSight

05

Beyond dashboards, I also discovered features like filters, which allow users to narrow down the data they see.



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Final thoughts...

- I Learned to build data visualizations and dashboards (1 hour project!).
- Connected S3 data to QuickSight directly with a “manifest.json file”
- The User-friendly interface made creating charts easier than expected!
- Future Uses: Analyze diverse datasets and create interactive dashboards for clear communication.
- Unexpected Bonus: QuickSight's intuitive design made learning efficient.
- Data Vis Exploration: Eager to delve into real-time data visualization, spatial data analysis, and storytelling with data.



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Thanks NextWork for the
free project guide!



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