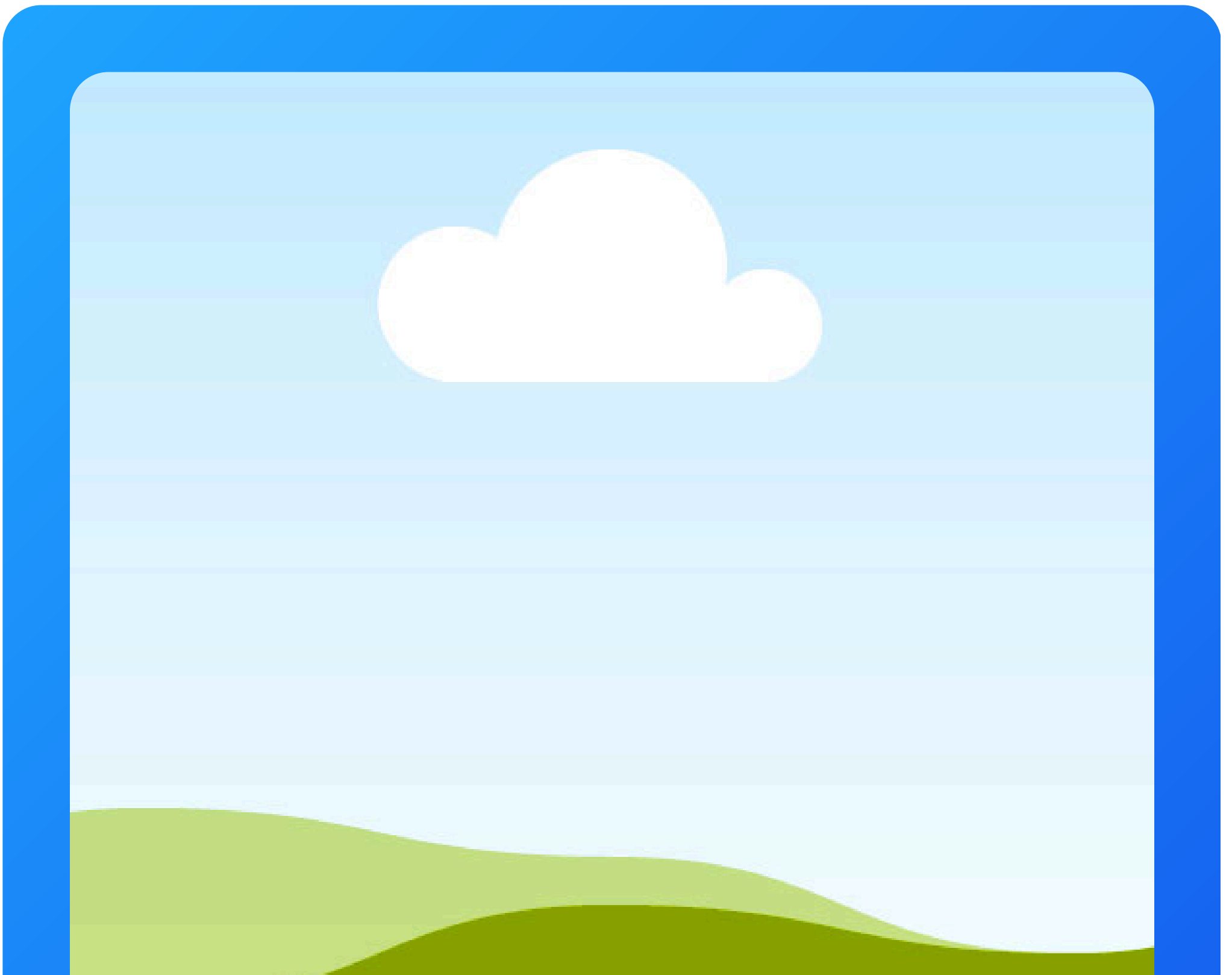# Visualize data with QuickSight 📊

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Introducing Amazon QuickSight!

What it does & how it's useful

Amazon QuickSight is a cloud-based business intelligence (BI) service offered by Amazon Web Services (AWS) that enables organizations to visualize their data and gain insights from it through interactive dashboards and reports.

Connect to Data Sources: QuickSight connects to a variety of data sources, including AWS services (Amazon S3, Redshift, RDS), on-premises databases, and third-party sources like Salesforce, MySQL, PostgreSQL, and more.

Upload project files into S3

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

Here's my bucket with the CSV file and manifest.json!
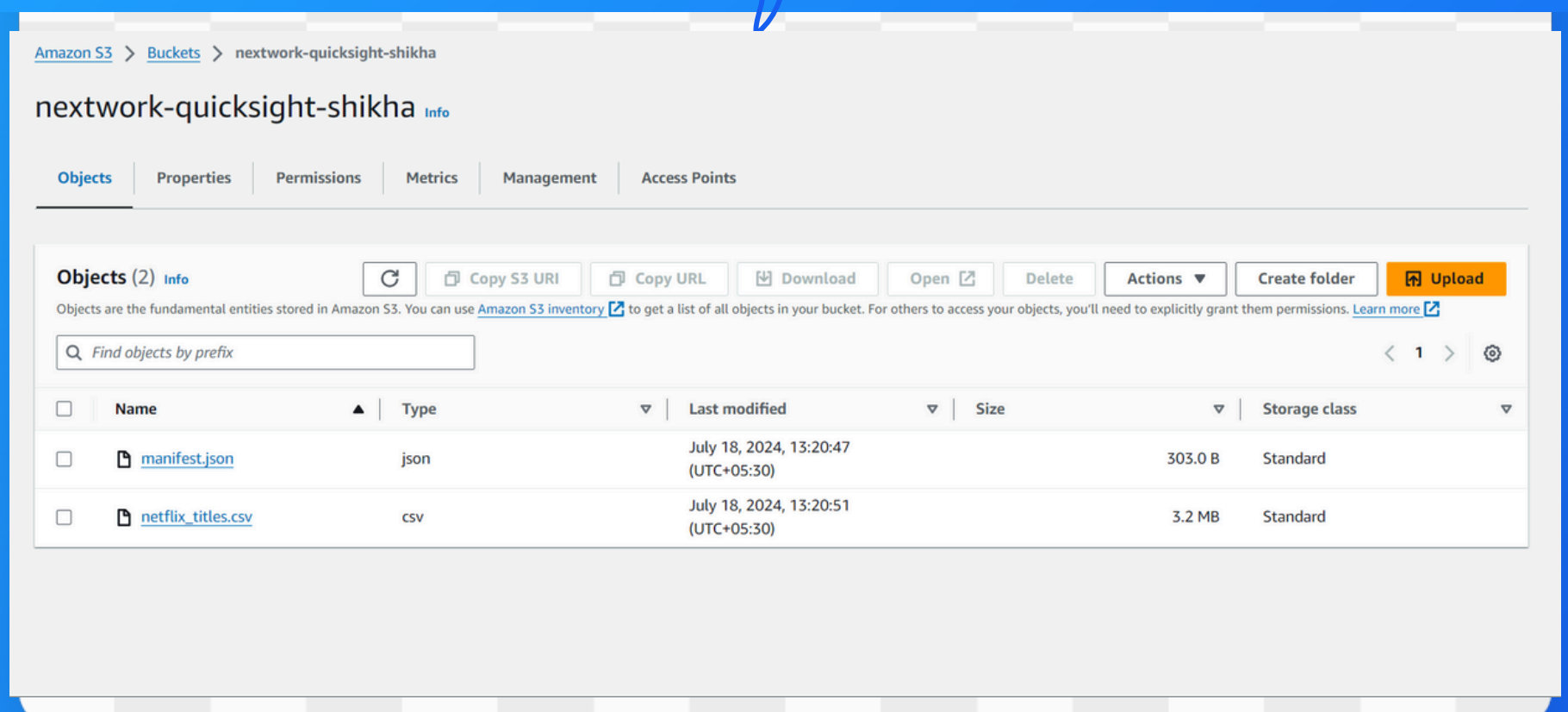
Create QuickSight account

- Creating a QuickSight account took me 5mins
- It doesn't cost to create a quicksight account
- I also had to enable QuickSight's access to S3 because I edited the manifest.json file by updating the name, description, version, and adding new permissions. This ensures the extension reflects current features and functionalities. I also had to enable QuickSight's access to S3 because it allows QuickSight to access and analyze data stored in S3 for visualization and insights.

Voila! I created my QuickSight account successfully.
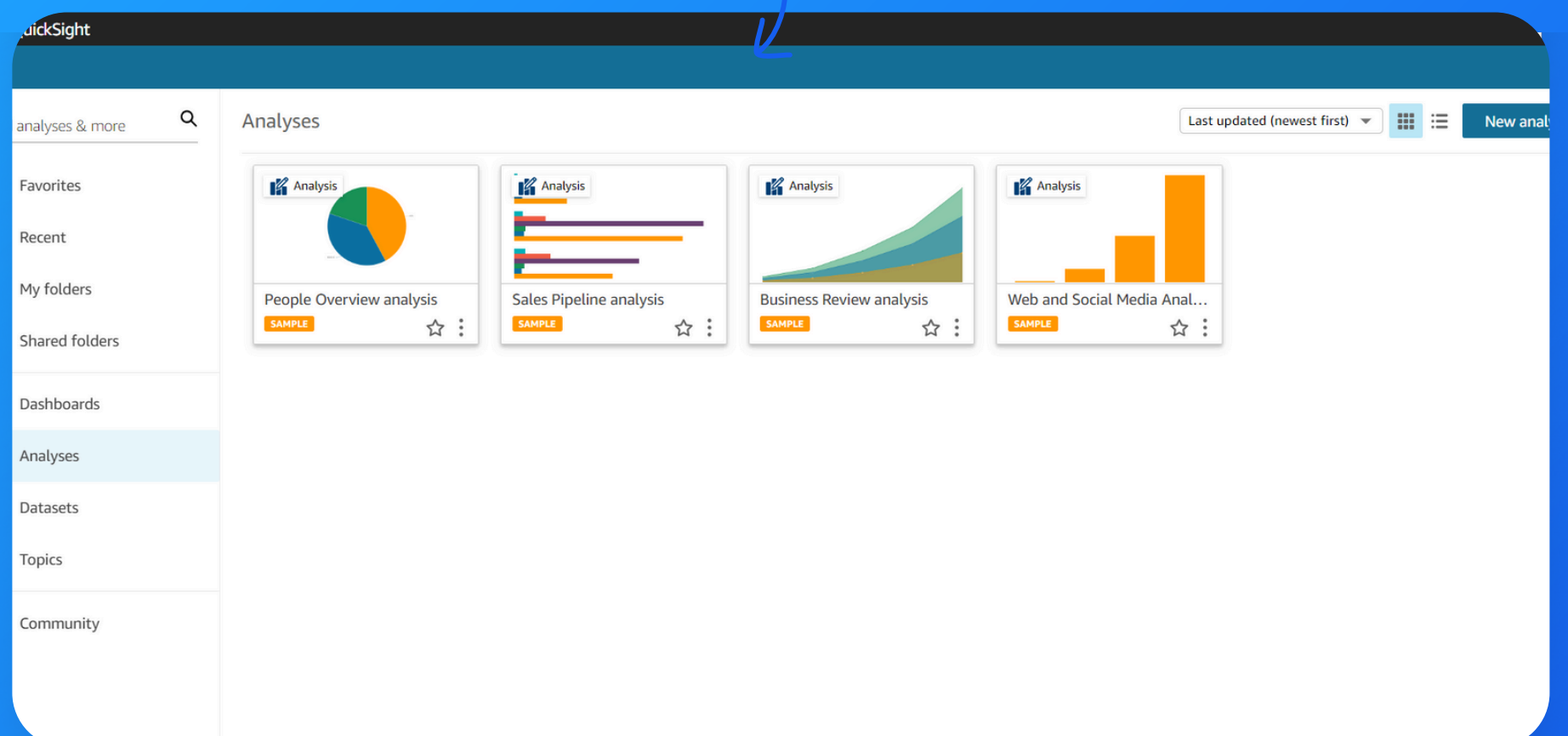
Connect S3 + QuickSight

- I connected the S3 bucket to QuickSight by using the URL of the manifest.json file or basically upload the manifest.json file
- The manifest.json file was important in this step because it shows how the data in the dataset is arranged or laid out so that Quicksight can interface it

Entering the manifest.json URL.
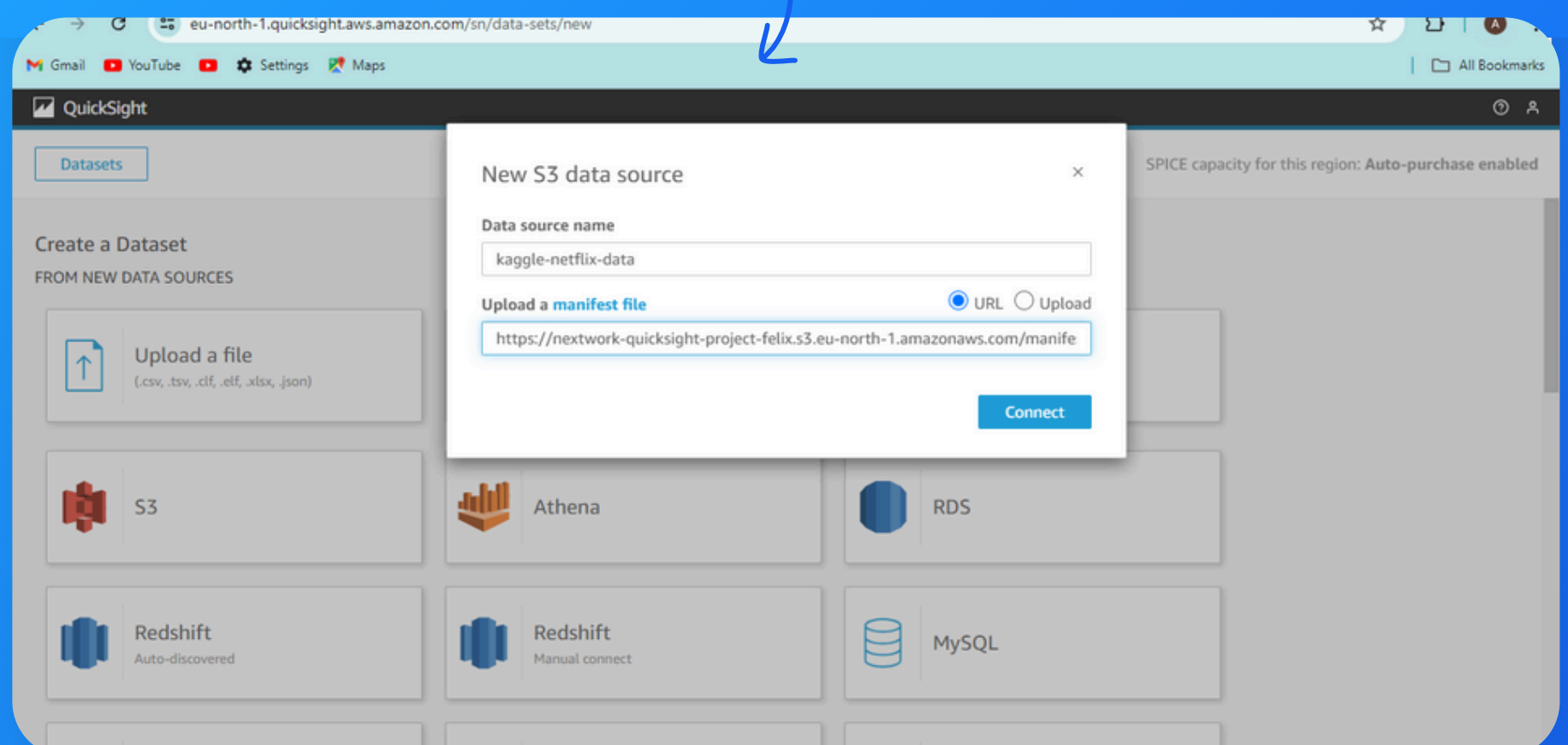
Let's make visualisations!

- To create visualisation on QuickSight, you'll have to select the kind of visualization you want and choose the data cloums you want to visualize on the Y axis or labels column
- The chart/graph shown here is a breakdown of the the of the the movies released in a year represented as a Donut chart
- I created this graph by selectig the visualization type as donut and then I chose release year as my group column
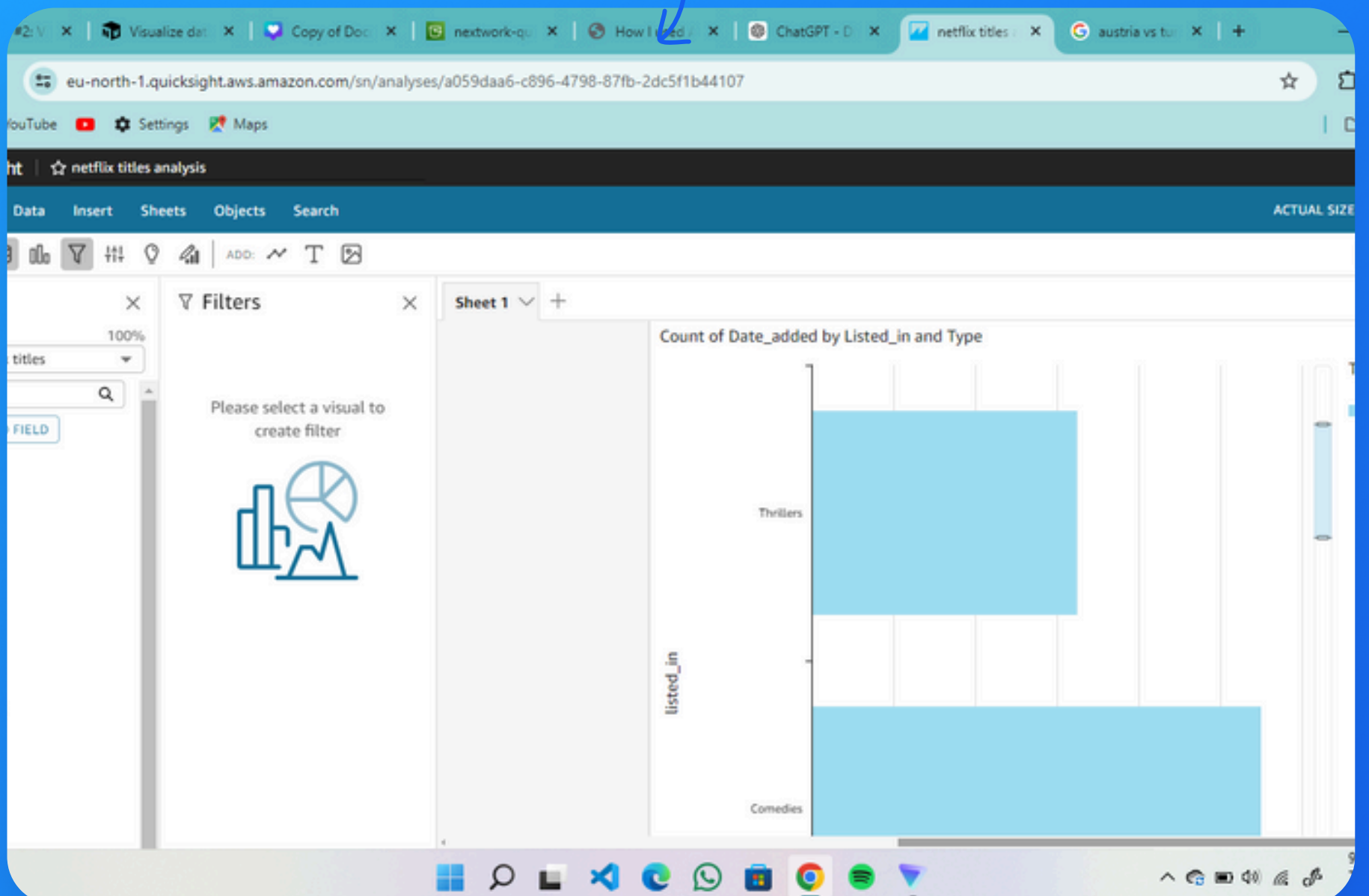
One of my first visualisations.
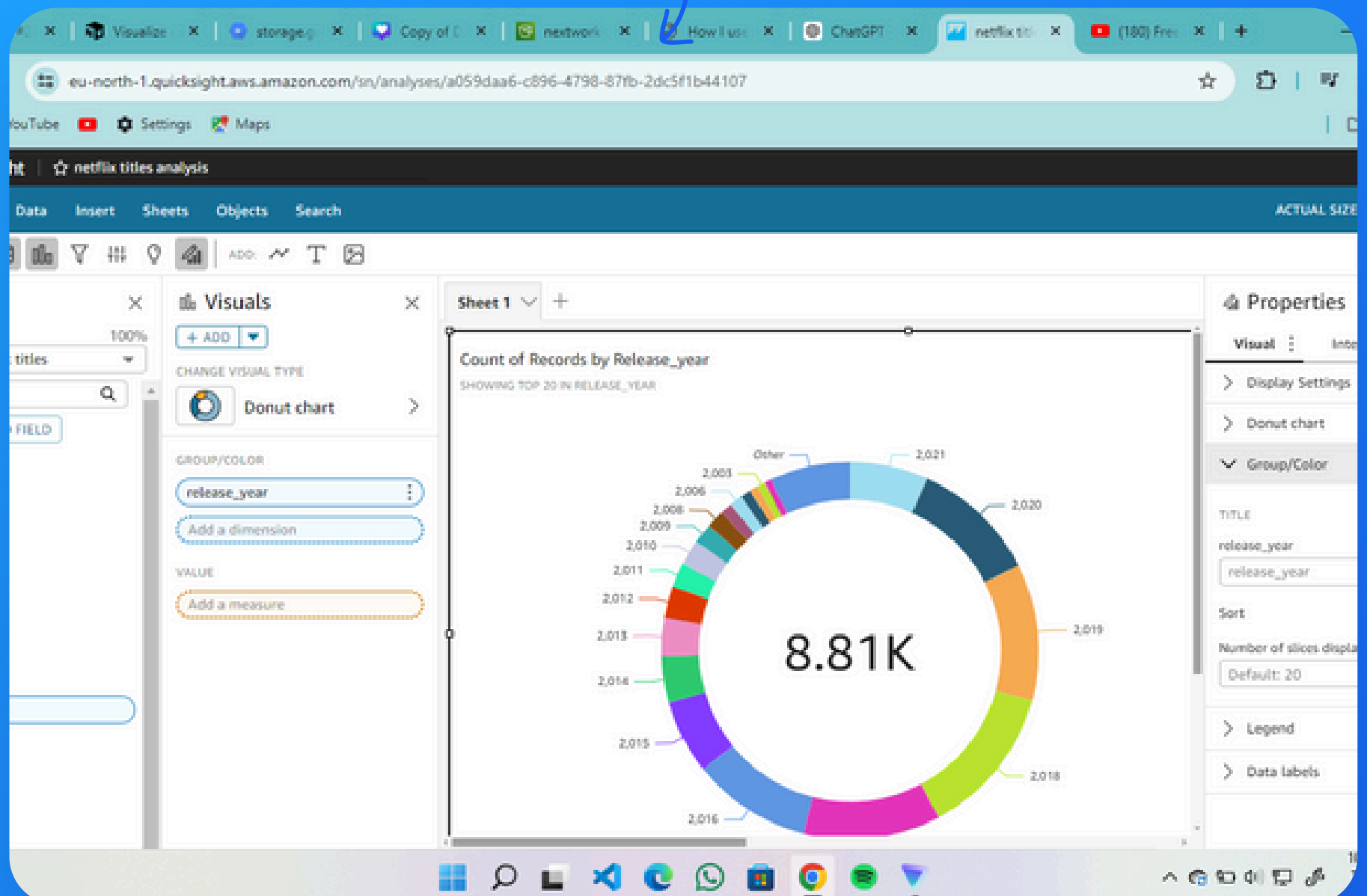
Using filters

- Filters are useful for to show only a specific group of the dataset leaving out the ones you dont need information about.

- Here I added a filter by... This helped me create a visualisation on only movies or tv shows that are thrillers or Action and Adventure and Comedy

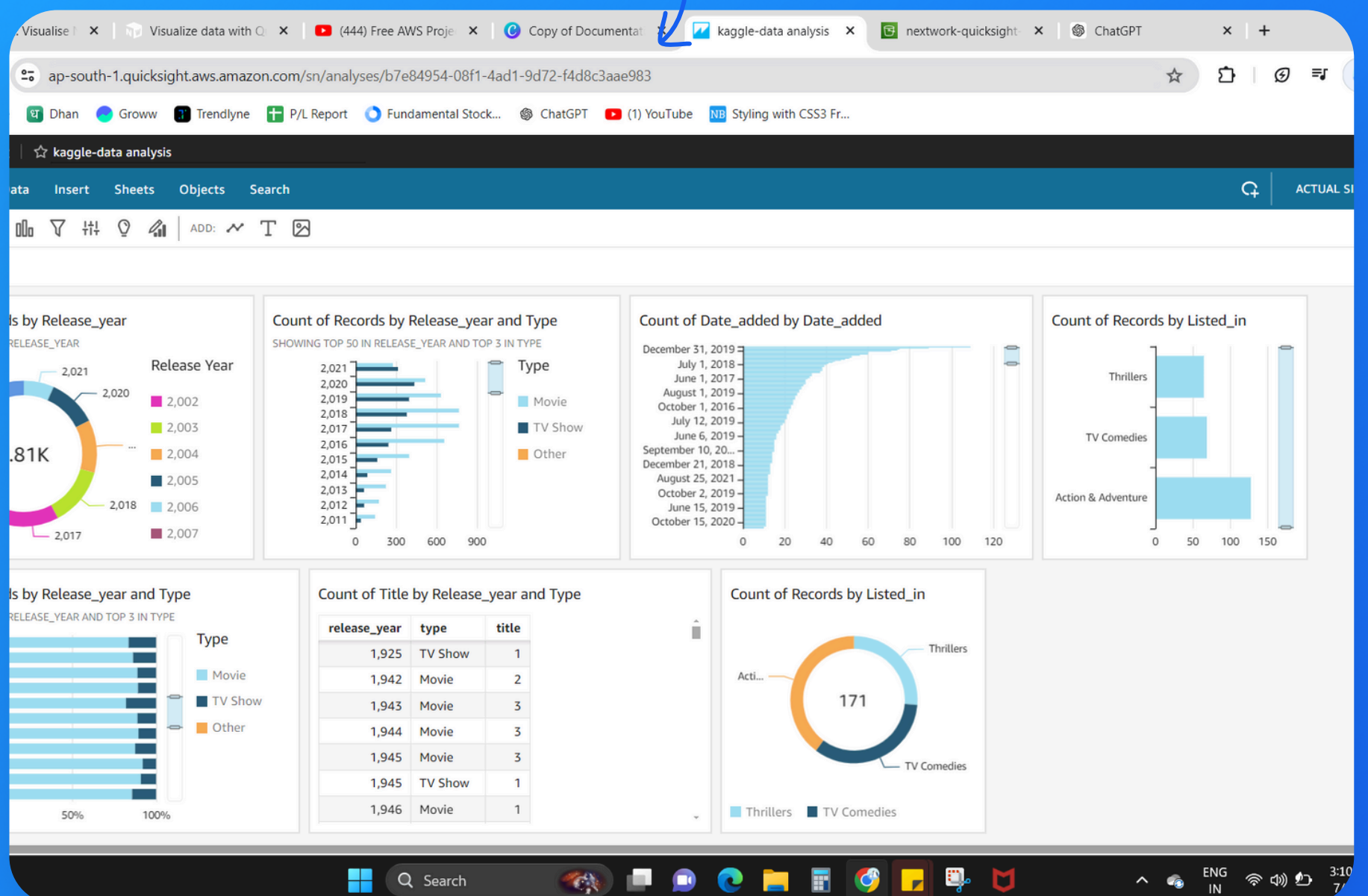A visualisation set up after adding filters.

Set up your dashboard!

- As a finishing touch, I organized all the charts i did for my dashboard
- Did you know you could export your dashboard as PDFs too?I did this by cllicking the publish button and the choosing generate PDFs

Voila! Here's the finished dashboard!

My key learnings

1 An S3 bucket was used in this project to store the dataset and manifest.json file

2 To connect the data stored in S3 with QuickSight, I had to link the manifest.json file URI to Quicksight

3 It is easy to create visualizations in Quicksight and it is easy to navigate different toggles.

4 One thing I didn't expect was the ease in creating visualizations and how it recommends if you put a graph in the Autograph