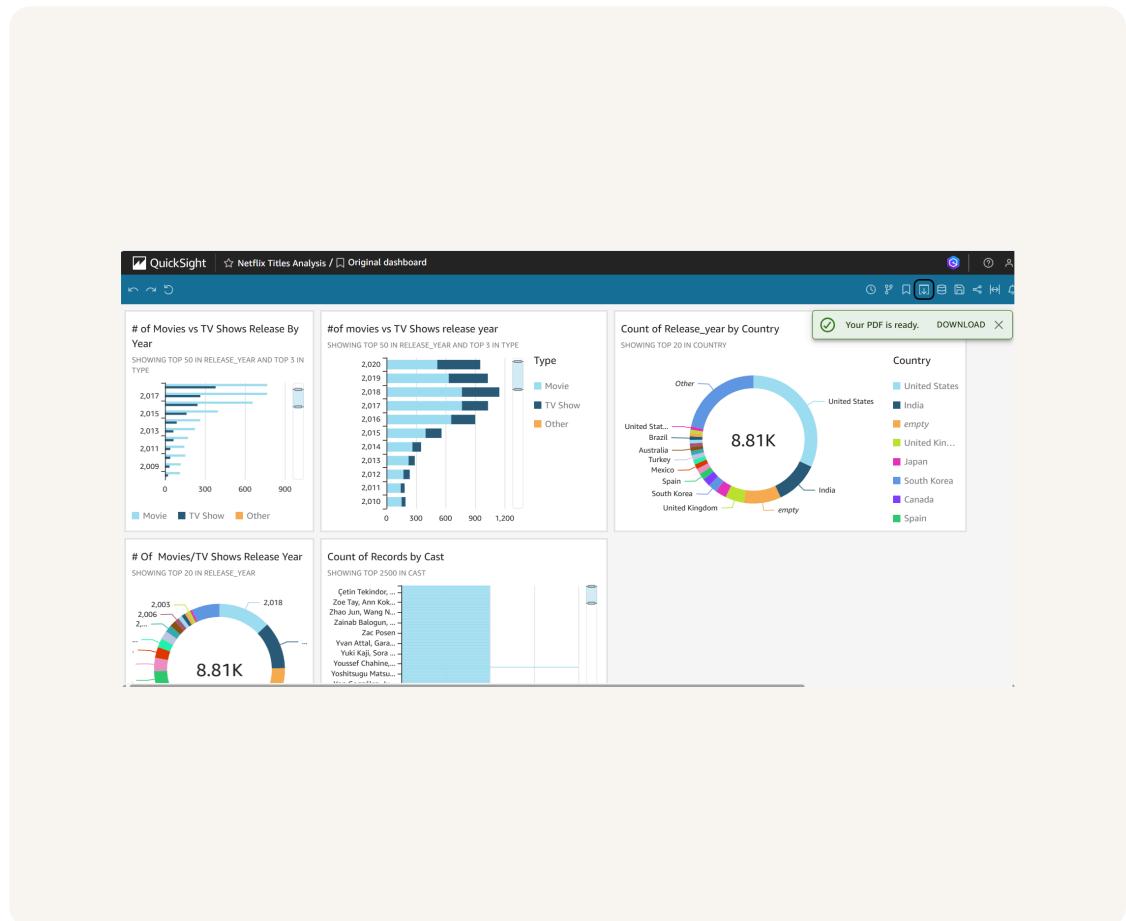




Visualize data with QuickSight

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Odinaka Dialah



Introducing Today's Project!

Today, I am here to explore how to visualize data using Amazon QuickSight. You'll learn to connect data sources, create interactive dashboards, and gain insights through visual analysis, helping us make data-driven decisions quickly and effectively.

Tools and concepts

In this project, I learned key AWS services like QuickSight for data visualization and S3 for data storage. I also grasped concepts such as datasets, manifest.json files, connecting data sources, creating interactive dashboards, and exporting reports.

Project reflection

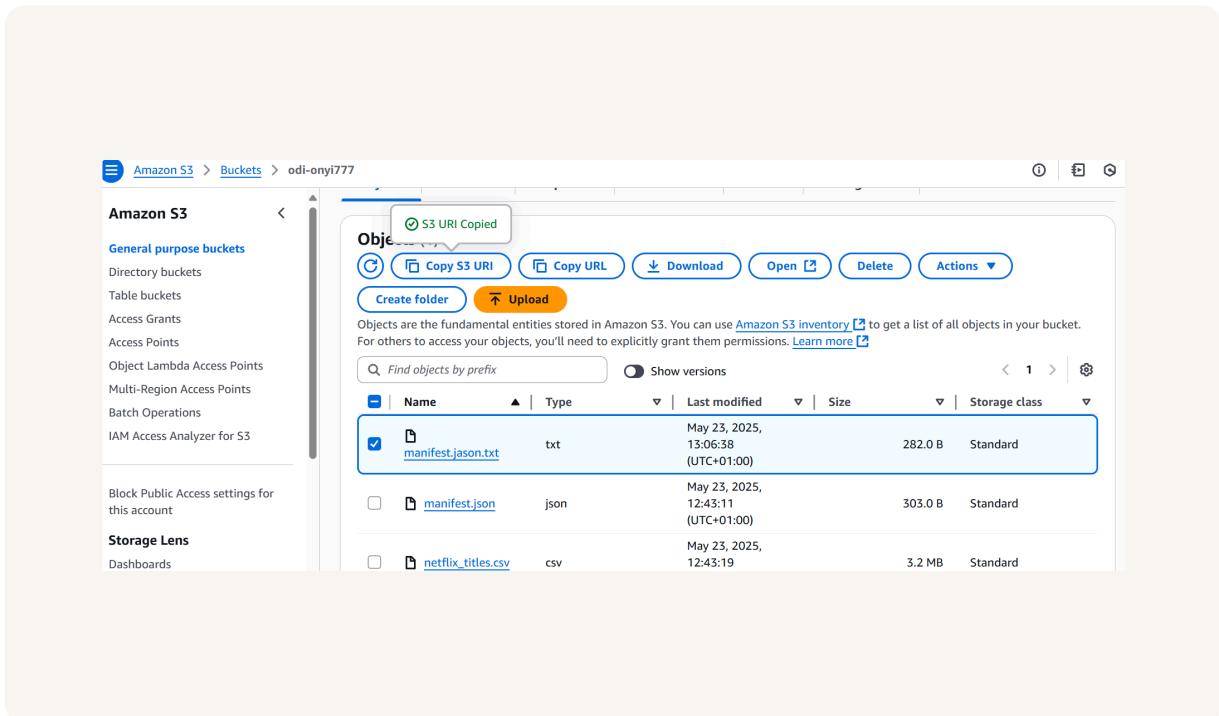
This project took a few hours to complete. The most challenging part was setting up the manifest.json file correctly to connect the S3 data to QuickSight. Once connected, building and customizing the dashboard became much easier.

After this project, I plan to work on Cloud Administration, Github, Docker and Container, Networking, DevOps and K8s

Upload project files into S3

The two files stored in the S3 bucket are `netflix_titles.csv`, which contains the dataset, and `manifest.json`, which provides QuickSight with instructions on how to locate and interpret the CSV file.

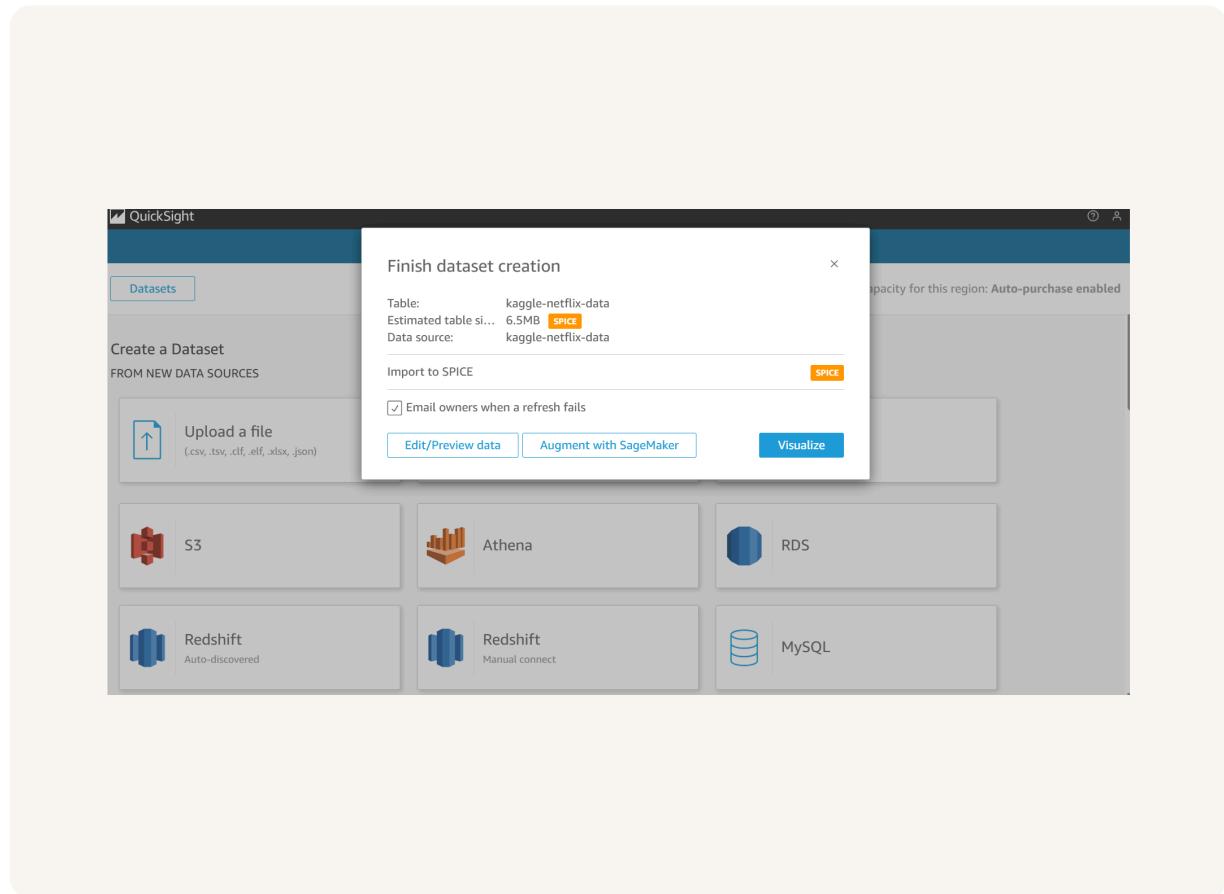
Replace the URL in the `manifest.json` file with the S3 URL of your dataset. It's QuickSight's formatting requirements. Editing the `manifest.json` file ensures QuickSight correctly reads the CSV structure, including delimiters, headers, and file location.



Create QuickSight account

You can open an Amazon QuickSight account with a free 30-day Enterprise Edition trial for up to 4 users. There's no cost if you stay within the trial limits. Charges may apply if you exceed the user limit or continue after the trial. Always delete

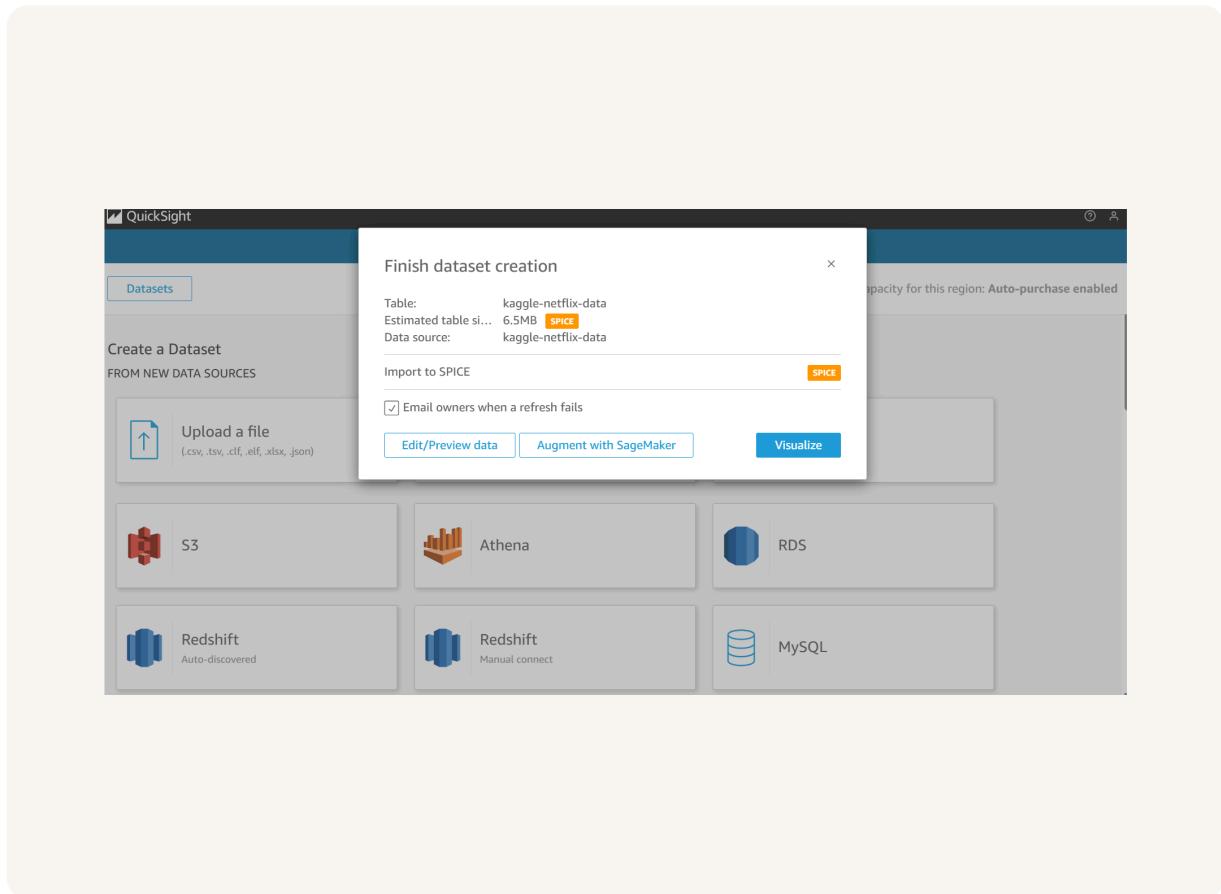
Opening an Amazon QuickSight account usually takes 5–10 minutes. You sign in, select an edition, configure settings, and complete setup. After confirmation, you can start creating dashboards right away.



Download the Dataset

To connect your S3 bucket in QuickSight, visit the Manage Data page. From there, choose New Dataset, select S3 as the data source, then provide your bucket details and configure permissions to access the data.

The manifest.json file tells QuickSight how to find and load your data in the S3 bucket. It specifies file locations, formats, and permissions, helping QuickSight connect and import your data correctly.

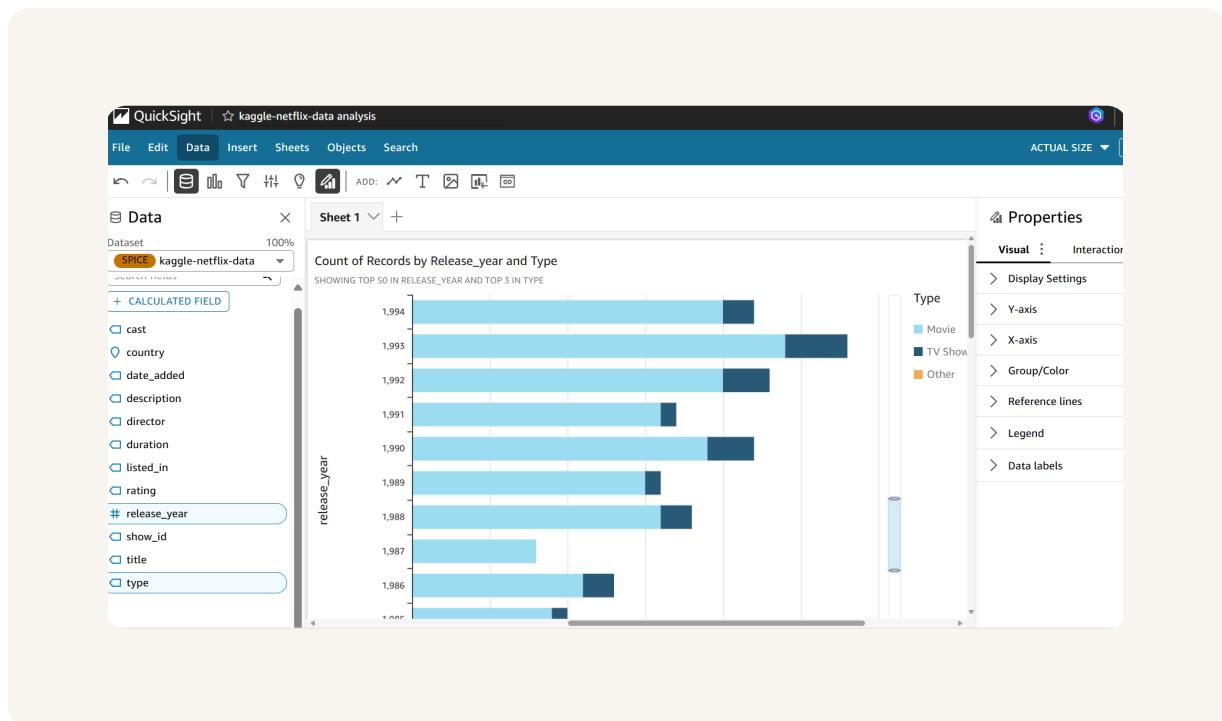


My first visualization

To create visualizations on QuickSight, start by choosing a dataset, then select a chart type like bar, line, or pie. Drag fields to the visual pane to set axes and values, apply filters, and customize the layout. Save or add visuals to a dashboard.

The chart/graph shown here is a breakdown of TV shows vs movies for every year?

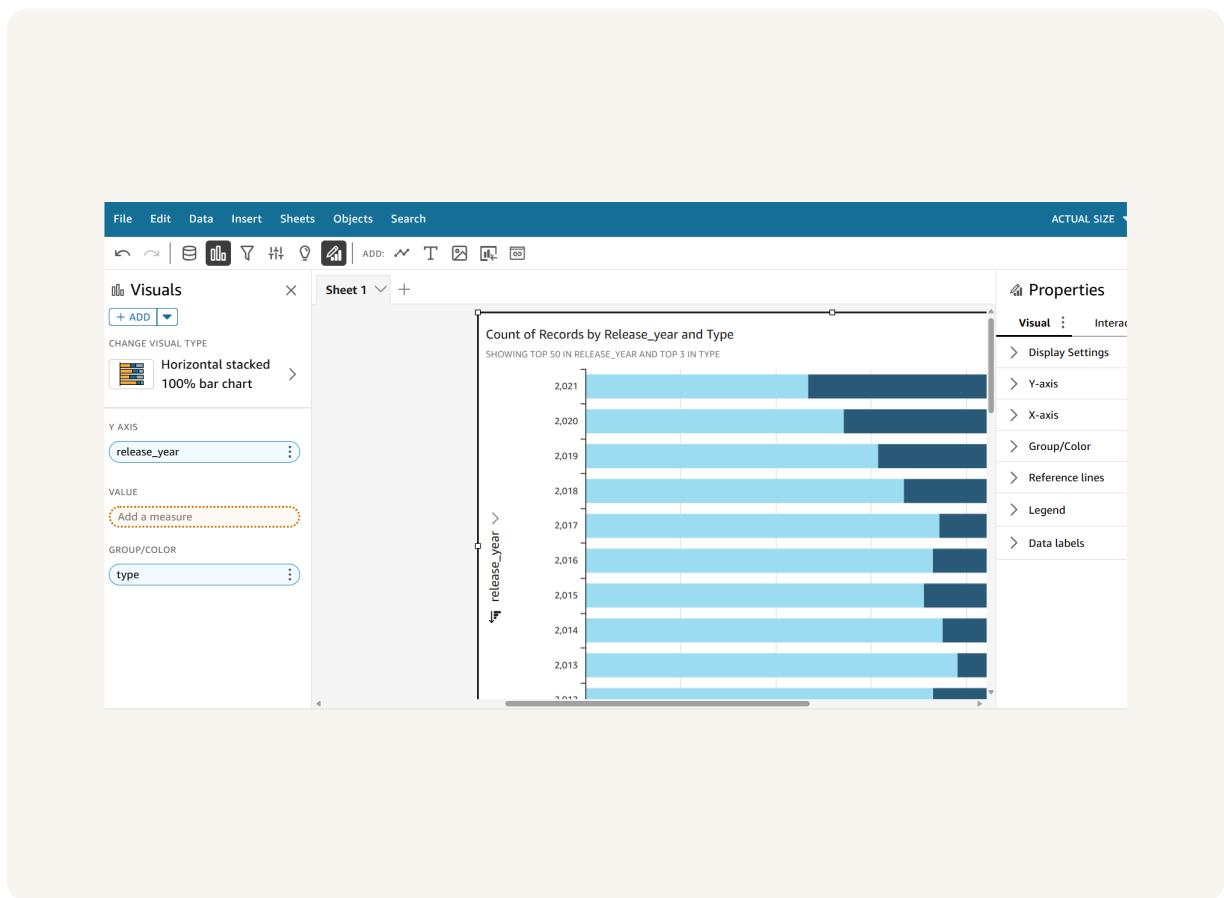
To create this visualization, I selected a dataset in QuickSight, chose a chart type (e.g., bar chart), then dragged relevant fields like Date, Category, and Sales into the visual. Date was used for the x-axis, Sales for the y-axis, and Category as a



Using filters

Filters are useful because they help you focus on specific data subsets, making analysis clearer and faster. They allow you to drill down into relevant information, spot trends, and make better, data-driven decisions.

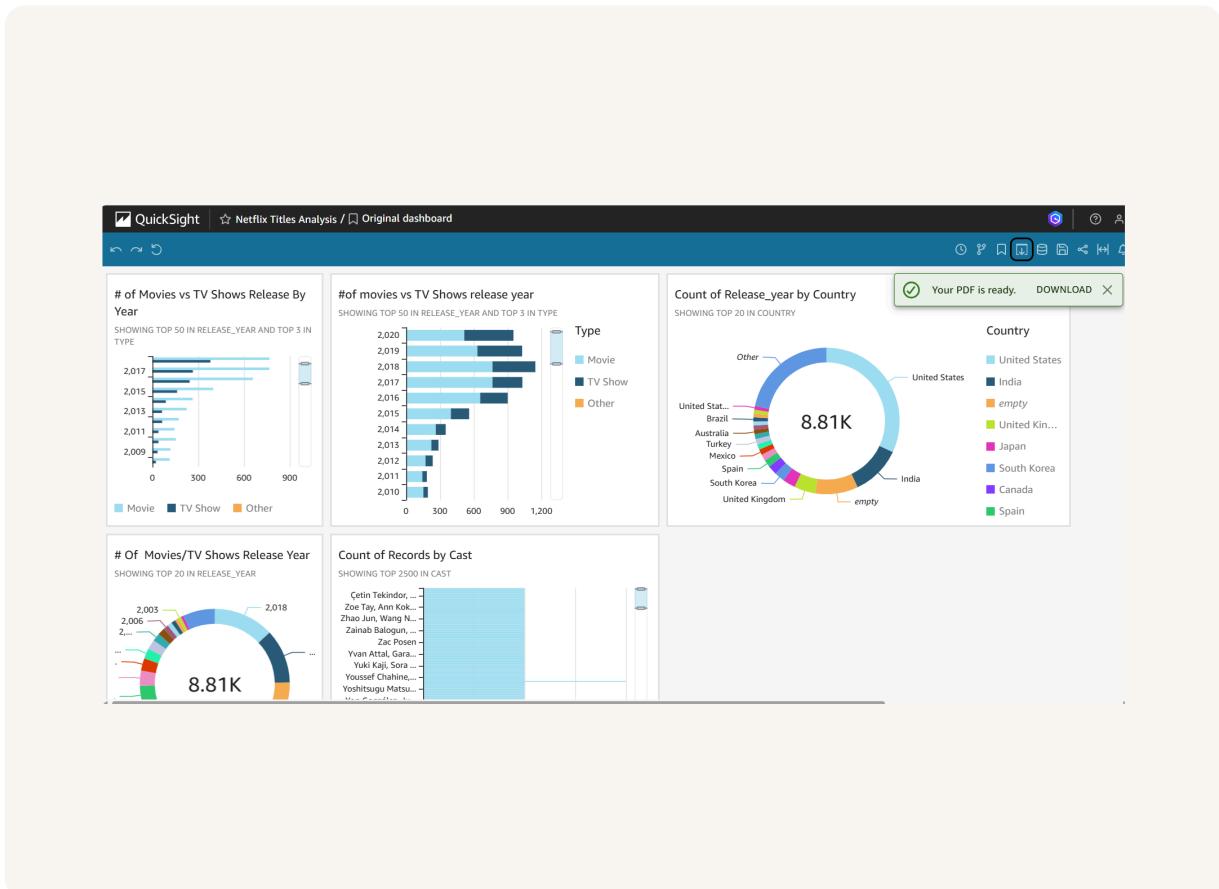
This visualization is a breakdown of how possible to stack movies and TV shows in the same row, so you can visualise the % of each.



Setting up a dashboard

As a finishing touch before publishing, I reviewed all visualizations, added clear titles and labels, ensured consistent formatting, applied filters for clarity, and tested interactions to make the dashboard easy to understand and share confidently.

To export the dashboard as a PDF, I opened the published dashboard in QuickSight, clicked the export button, selected “Download as PDF,” when the green banner popped up and saved the file to my device for easy sharing and offline access.





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