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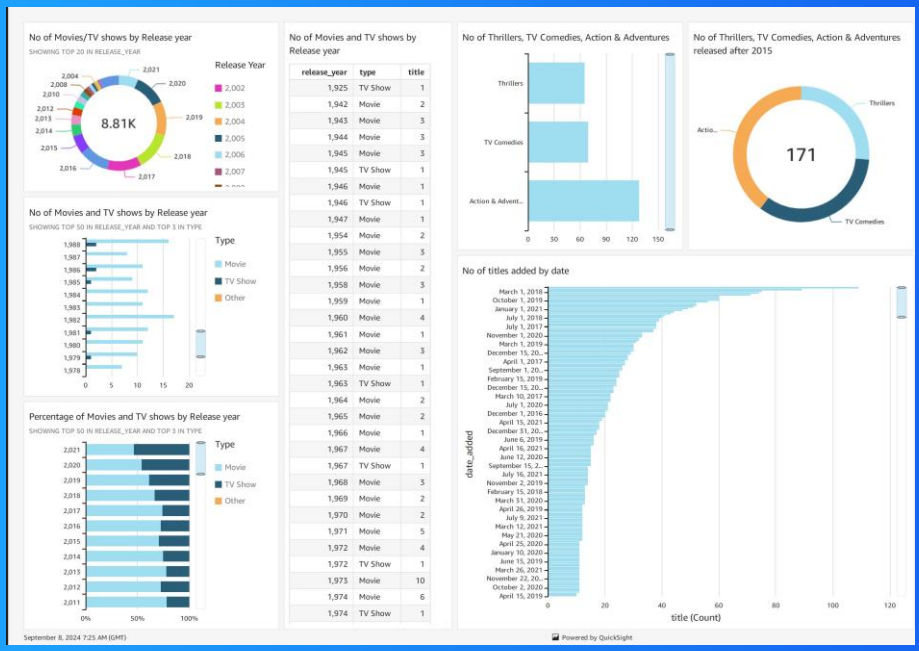
Visualize data with QuickSight

Prajit Venkatachalam



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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based business intelligence tool designed for creating and sharing dashboards, visualizations, and reports. It helps organizations swiftly analyze and visualize their data to gain valuable insights.

How I used Amazon QuickSight in this project

In today's project, I used Amazon QuickSight to create and visualize a dashboard for analyzing Netflix data. I generated various types of charts by comparing different data categories and applied filters to sort the data effectively.

One thing I didn't expect in this project was...

One unexpected aspect of this project was exploring the various options in QuickSight, including different chart types and filters.

This project took me...

This project took me an hour and a half to complete, including report finalization and editing.

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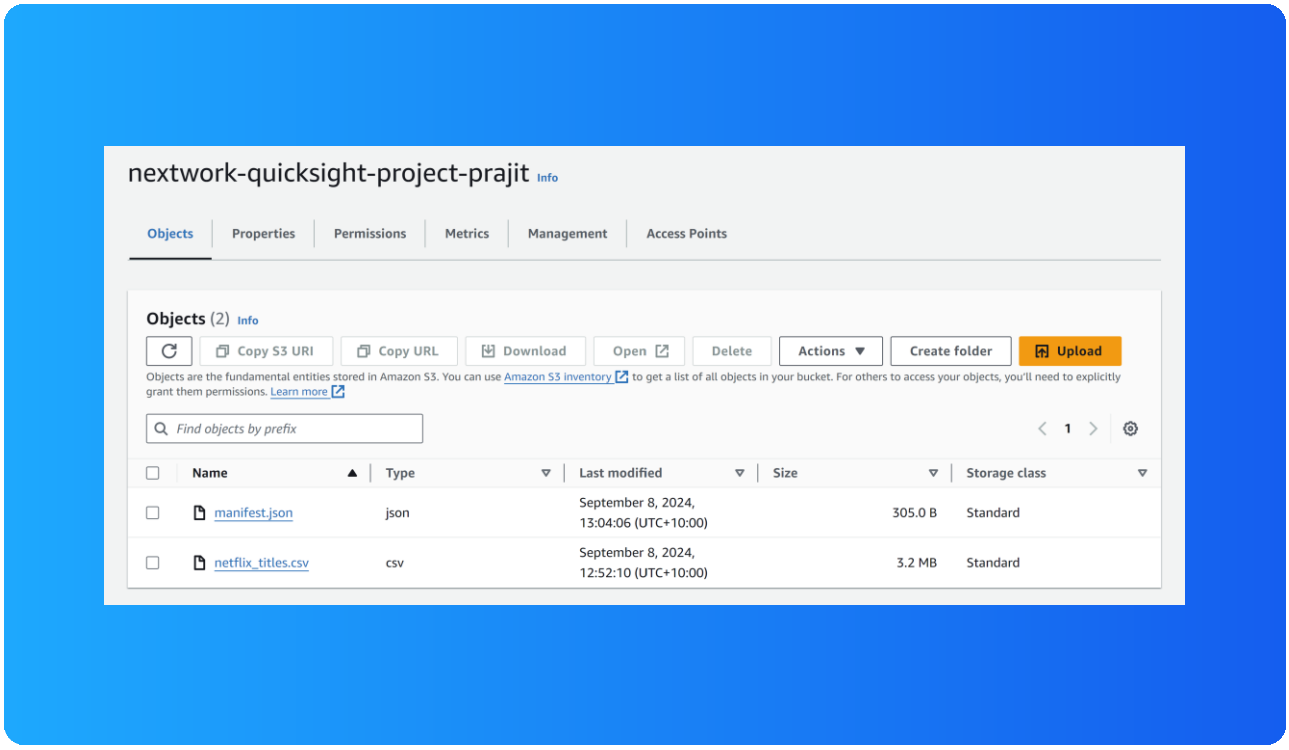
Upload project files into S3

In this project, S3 is used to store two files, which are netflix datasets and manfiset.json file.

I updated the manifest.json file by changing the S3 URI of my dataset. It is important to update this file because the old one would point to the wrong location.



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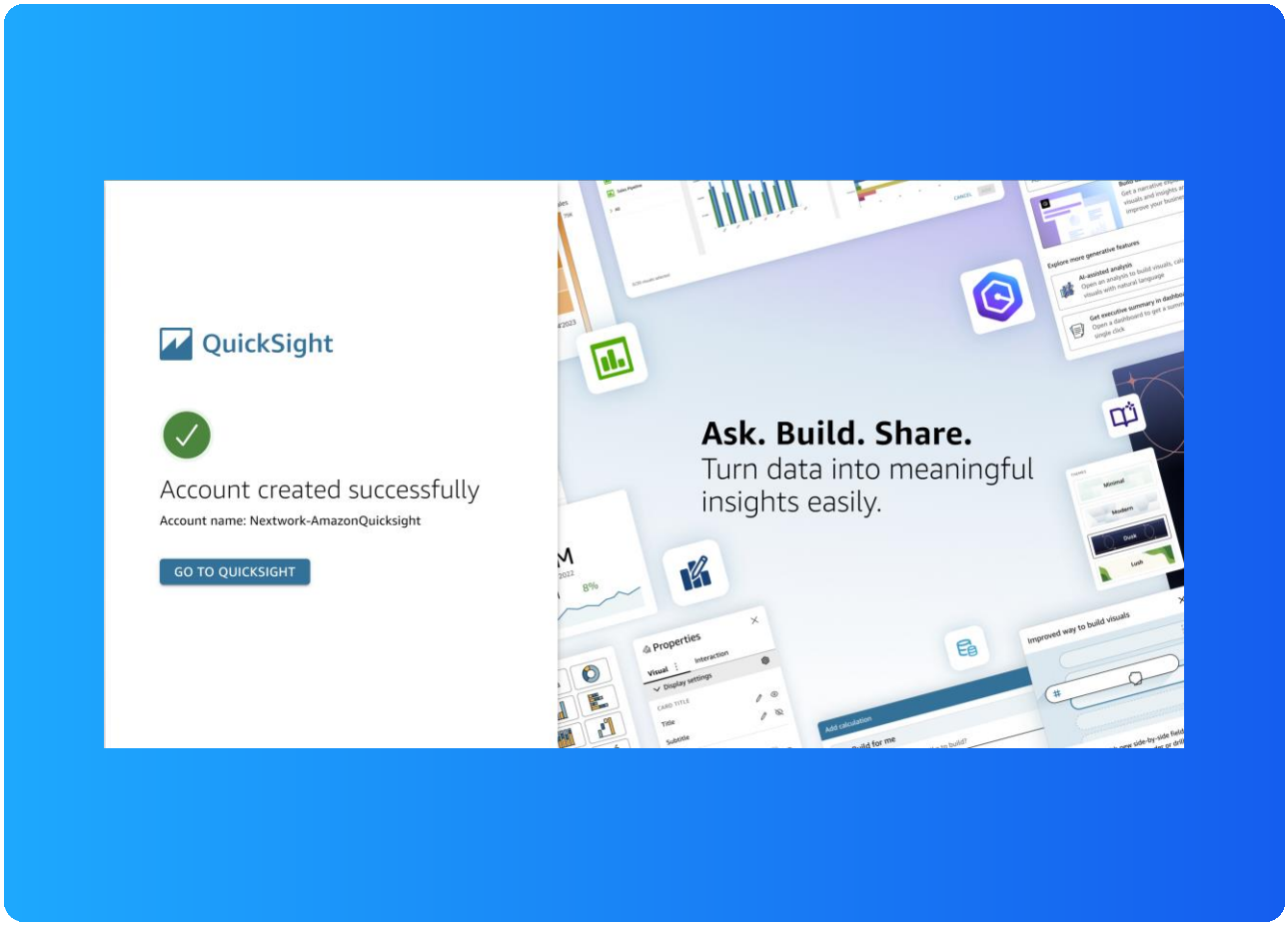
Create QuickSight account

Creating a Quciksight does not cost any money for this project. It has its free trail which lasts for 30 days.

It took me 3 minutes to sign up and create a new account, including enabling QuickSight access to my S3 datasets to process the data from the bucket. I encountered a namespace error when naming QuickSight, but it was easy to fix.



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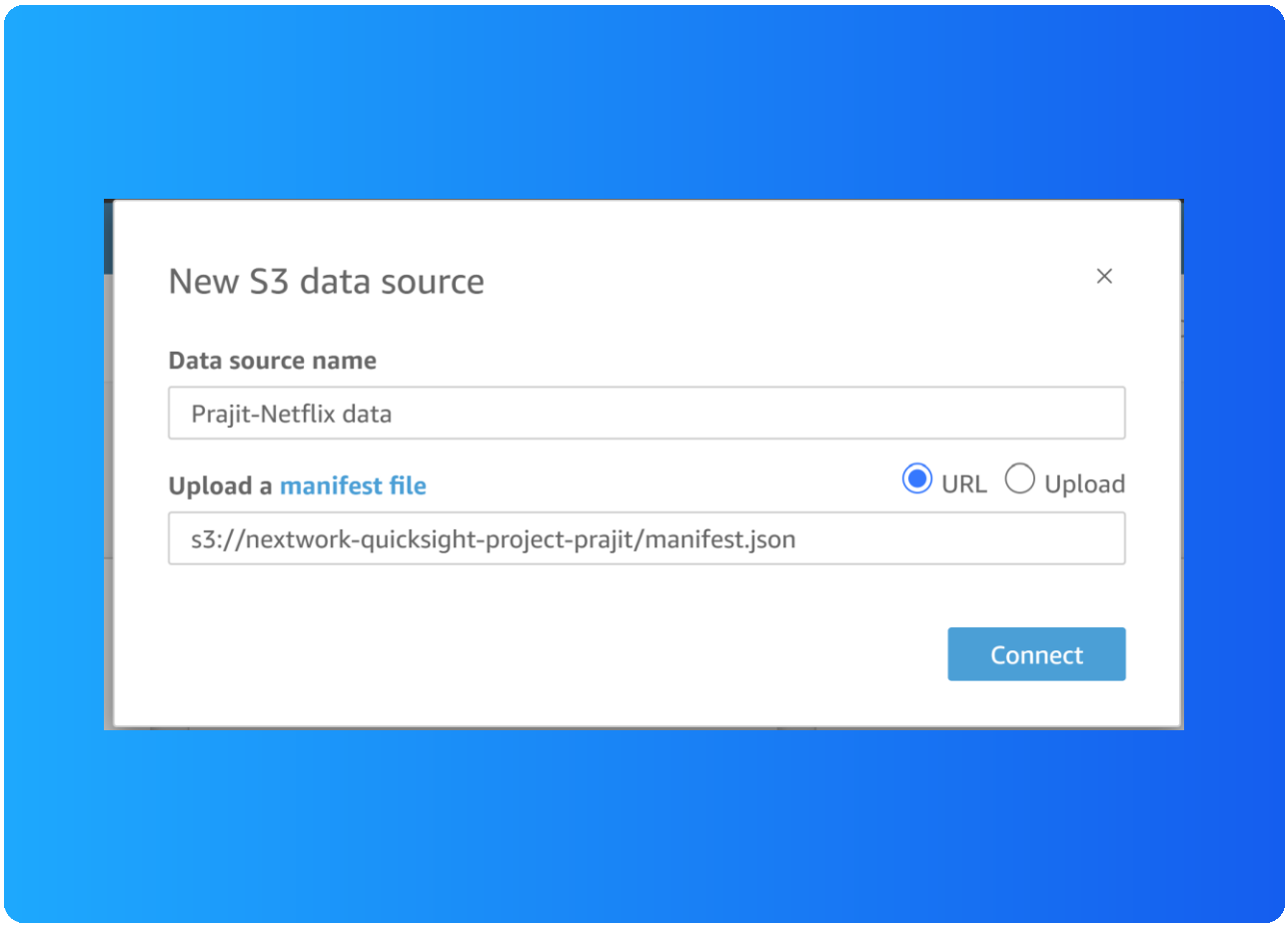
Download the Dataset

I connected the S3 bucket to QuickSight by navigating to the 'Go to Amazon QuickSight' page, selecting 'Datasets,' then 'New dataset.' I chose the S3 option, entered the data source name, and uploaded the JSON manifest file.

The manifest.json file helps QuickSight understand the structure of your dataset, ensuring it displays the data accurately in charts or graphs. Without this guide, QuickSight may misinterpret the data, leading to incorrect visualizations



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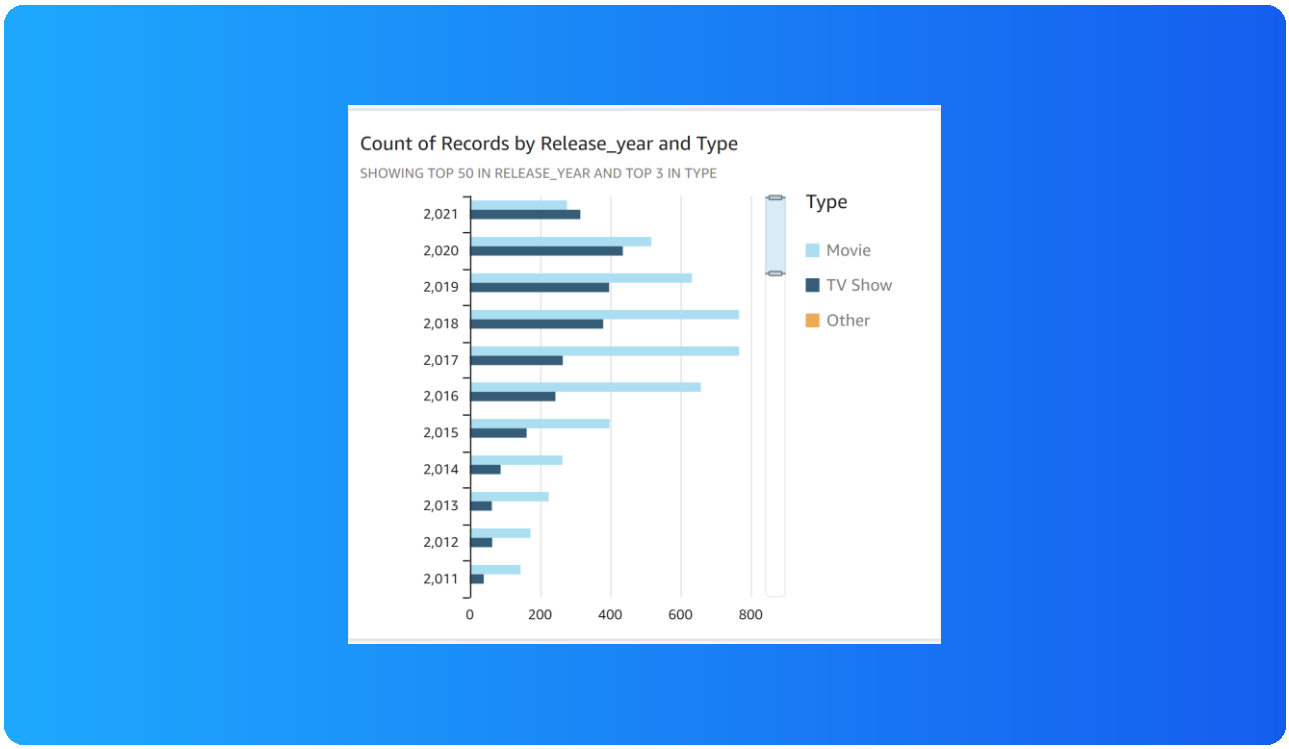
My first visualization

To create visualizations on Quicksight, I dragged the relevant fields into the Quicksight's Autograph dashboard. I explored different types of charts and I chose Donut chart and bar chart for analysing.

The graph shown here is a breakdown of Movies vs TV shows by release year.

'I created this graph by dragging and dropping the 'release year on Y-axis and 'type' (Movie or TV shows) as group variables.



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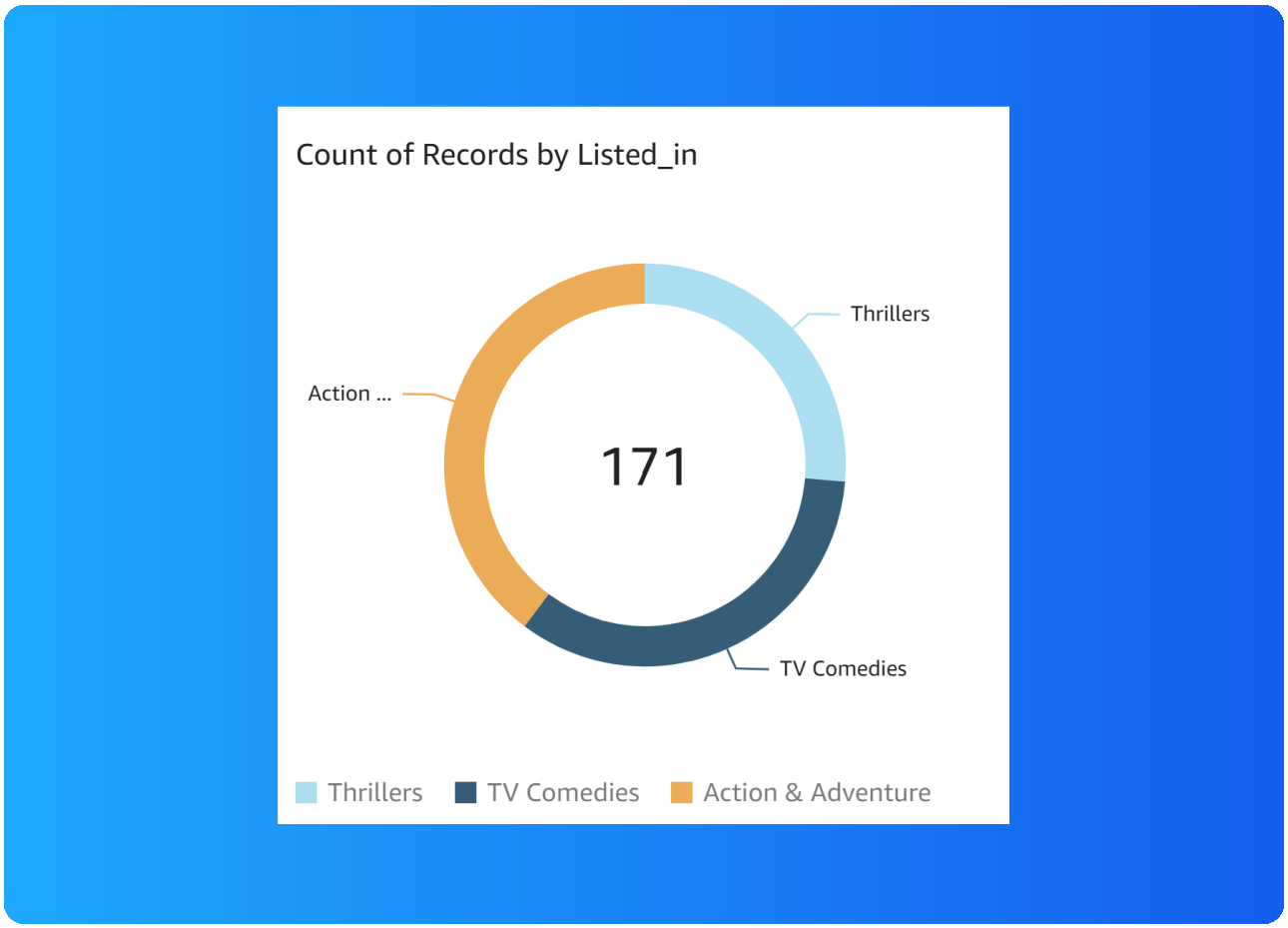
Using filters

Filters help display only the specific subset of data you want to analyze, effectively removing any irrelevant information for better insights.

In this chart, I applied a filter to exclude movies and TV shows released before 2015, allowing me to focus the visualization on the three specific categories that were released after 2015.



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Setting up a dashboard

As a finishing touch, i edited the titles of each chart by giving a relevant name, which will be easy for the reader to understand the purpose of the chart.

Did you know you could export your dashboard as PDFs too? I did this by publishing my dashboard and then exported by using export function, and downloaded as PDF.

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