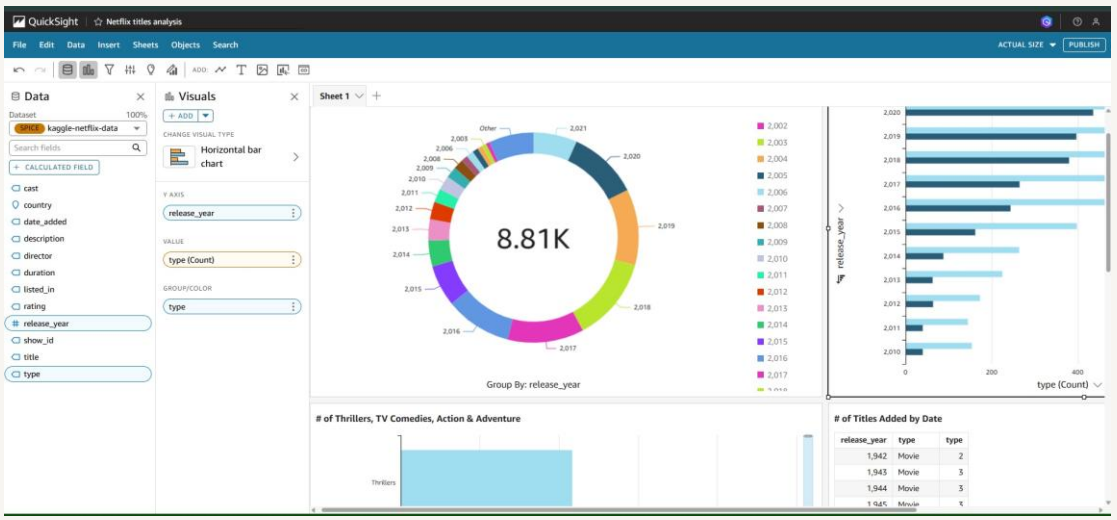
Visualize data with the Amazon QuickSight



Introducing Today's Project!

In this project, I will demonstrate how to use Amazon QuickSight to analyze Netflix dataset and generate visualizations and Insights. I'm doing this project to learn and how to use Cloud data service for data Analysis and make a Dashboard visually.

Tools and concepts

Services I used were Amazon S3, Amazon QuickSight.. Key concepts I learnt include are uploading datasets to S3 and analyze different visualization styles with filters to make a charts, graphs and make them to save as a pdf to share with others.

Project reflection

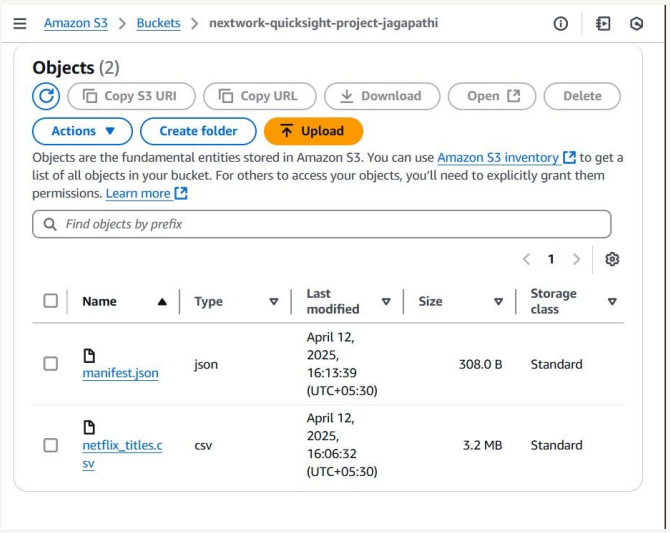
This project took me approximately... The most challenging part was making charts accordingly as constraints. It was most rewarding to me to show to what data it consists of and representation of data in charts/graphs.

After this project, I plan to work on... I will start this project on Cloud security with IAM security aspect.

Upload project files into S3

S3 is used in this project to store two files, which are "netflix_titles.csv" and "manifest.json" netflix_titles.csv is the data we are going to analyze using Amazon S3 and manifest.json which tells QuickSight about structure and format we ae using.

I edited the manifest.json file by updating S3 URI corresponds to our dataset file location. It's important to edit this file because it's how Amazon QuickSight will find and analyze data. if we not upload the file, it can't find file and give error.



Create QuickSight account

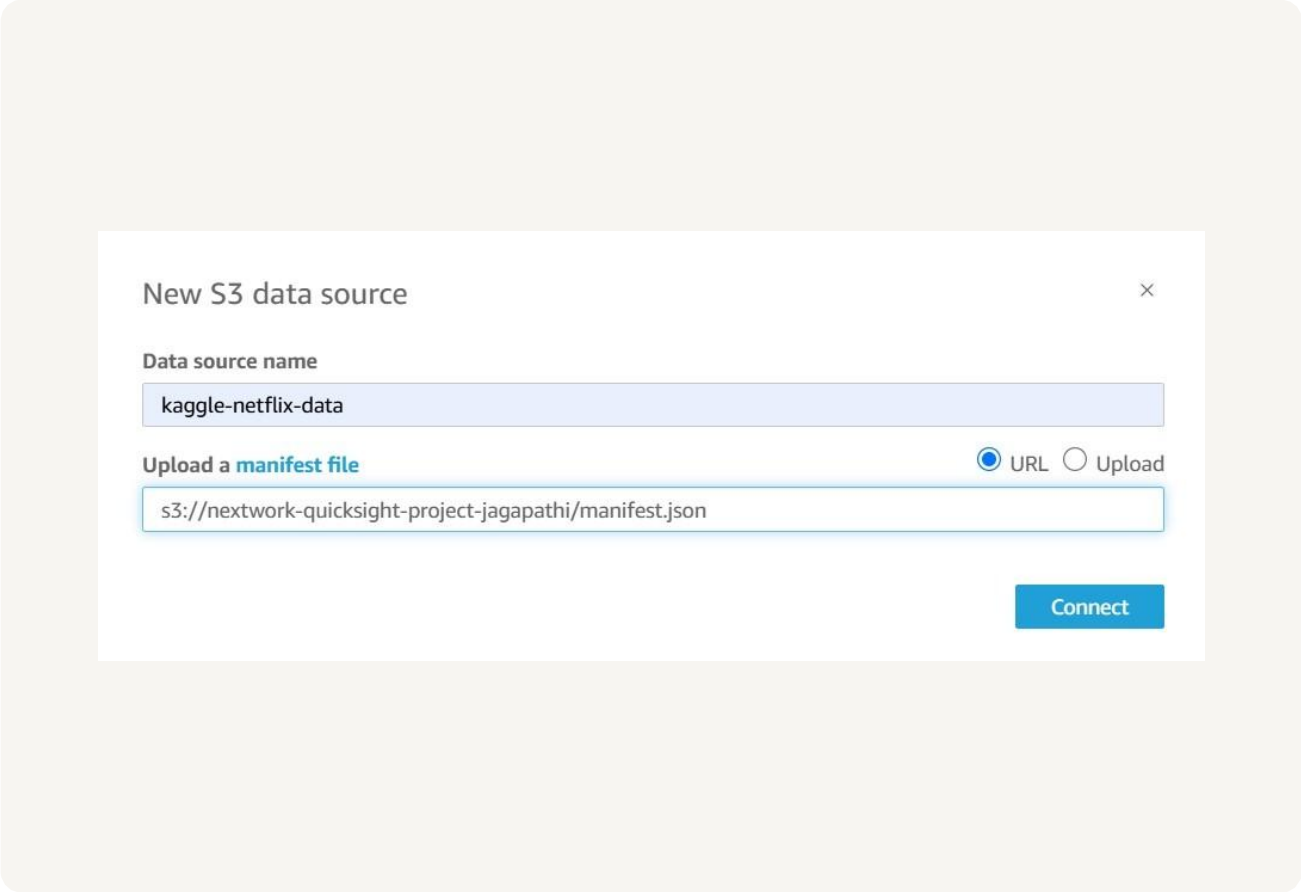
Creating a QuickSight account cost 0$ for 1month as free trail. Make sure uncheck the add on called "Pixel Perfect Reports" so don’t get charged.

Creating an account took me around 3min including S3 access.

Download the Dataset

I connected the S3 bucket to QuickSight by visiting the Datasets page. There are many options we can connect like Databases RDS, Postgresql and GitHub etc. But i selected S3 as the files are in S3.

The manifest.json file was important in this step because it tells QuickSight how to understand the data and can represents visually like Graphs or Charts. it helps QuickSight that we uploaded .CSV file and delimiter(,)how to divide and analyze data.

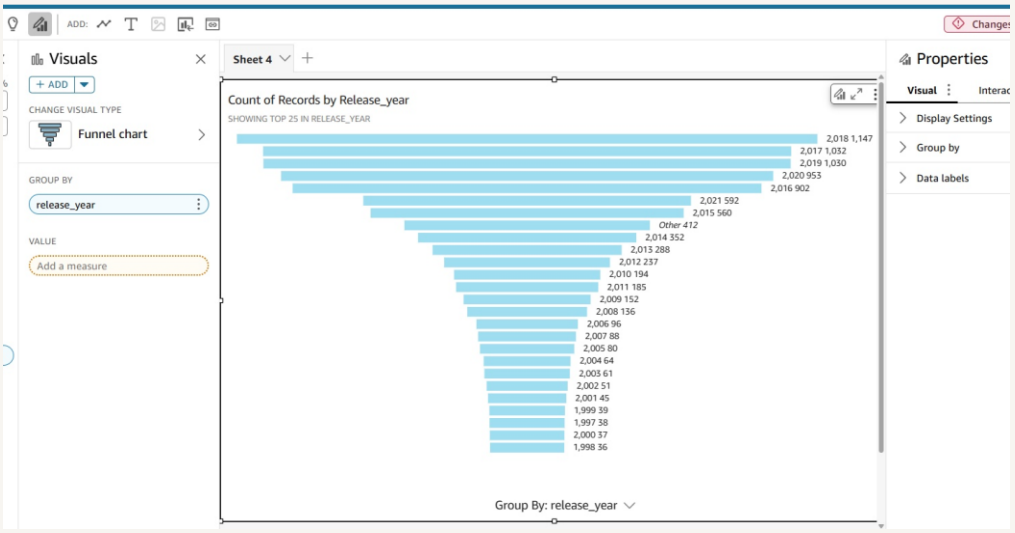


My first visualization

To create visualizations on QuickSight, I need to select between different chart we need so it will visualize data based on the parameters we select and provide insights accordingly.

The chart/graph shown here is a funnel chart of records by Release_years from different categories from different years.

I created this graph by dragging and dropping by simply clicking on visualizing option and select the needed type for visualizing data.



Using filters

Filters are useful for selecting and reducing and identifying the important data to the subset and helps to focus on specific category like year, title or movie types etc.

This visualization is a breakdown of TV Shows, Movies that belongs to one of categories of comedy, TV shows, and thriller. Here I added a filter by data labelling we need.

Setting up a dashboard

As a finishing touch, I had renamed the headings of the charts and dashboard.

Did you know you could export your dashboard as PDFs too? I did this by publishing and export as pdf and download to our own system.