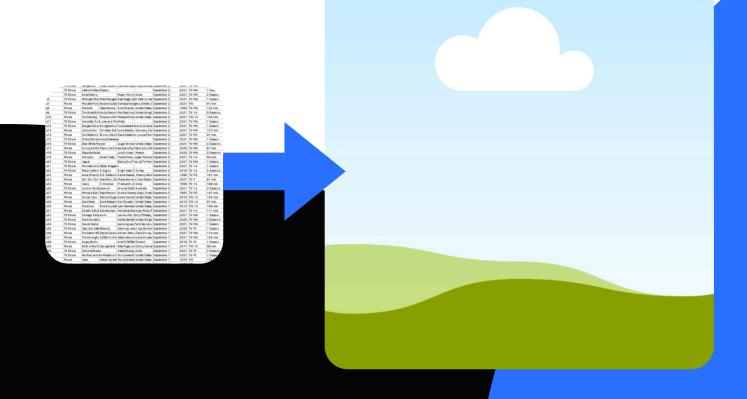# How I used Amazon QuickSight to visualise data 📊

Sachi Bharwada

What is Amazon QuickSight?

What it does:

- Amazon QuickSight is a cloud-based business intelligence service, that is made for users to analyze/visualize data efficiently and quickly. It allows users to connect to many data sources and it has intuitive dashboards, so that you are able to gain insights and make data-driven decisions.

Why it's useful:

- It is useful for many reasons, one being its user-friendly interface. Also, its scalability, seamless integration with other AWS services make it a great option for businesses and groups. QuickSight also incorporated ML which enhances data analysis.

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

- I'm utilizing Amazon QuickSight to examine and visualize Netflix data sourced from the Kaggle platform. This involves delivering actionable insights by pinpointing trends, patterns, and correlations, streamlining processes, enhancing efficiency, and promoting innovation.
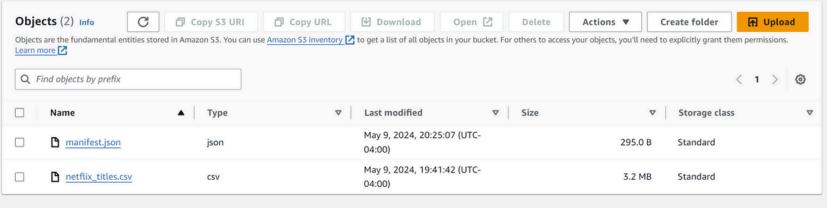
Sachi Bharwada
https://github.com/sachi-bharwada

Upload your dataset and a manifest.json file into S3

- S3 is used in this project to store our dataset and also to provide seamless integration with QuickSight, so that we have efficient data processing and access for analysis.

- The manifest.json file serves as a map for Amazon QuickSight, indicating the location and structure of your data files. It also outlines the structure of each data element so that QuickSight can correctly analyze the data and efficiently display it in graphs or charts. Without this map, QuickSight can run into problems and not appropriately display your data.
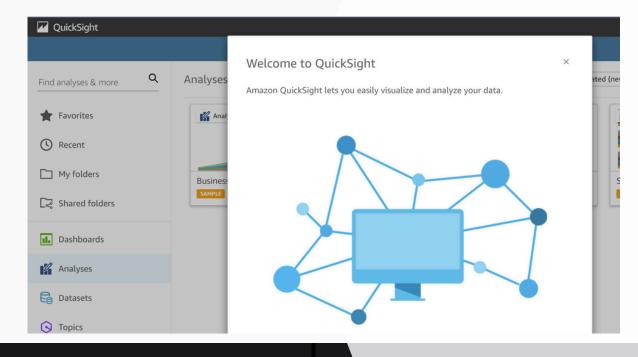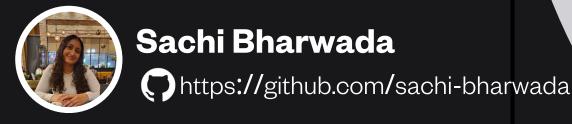
Here's my bucket with the CSV file and manifest.json

Objects (2) Info   ⟳   □ Copy S3 URI   □ Copy URL   ⬇ Download   Open ⬈   Delete   Actions ▼   Create folder   **Upload**

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory ⬈ to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more ⬈

Q Find objects by prefix   ‹ 1 › ⚙

□	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽
□	📄 manifest.json	json	May 9, 2024, 20:25:07 (UTC-04:00)	295.0 B	Standard
□	📄 netflix_titles.csv	csv	May 9, 2024, 19:41:42 (UTC-04:00)	3.2 MB	Standard

Sachi Bharwada
○ https://github.com/sachi-bharwada

Create your Amazon Quicksight account

- By providing QuickSight with the necessary permissions to access S3, we establish a seamless connection between the two services, simplifying data ingestion and analysis processes.

- This authorization allows QuickSight to promptly access, handle, and present data from S3, bypassing the requirement for manual data transfers.

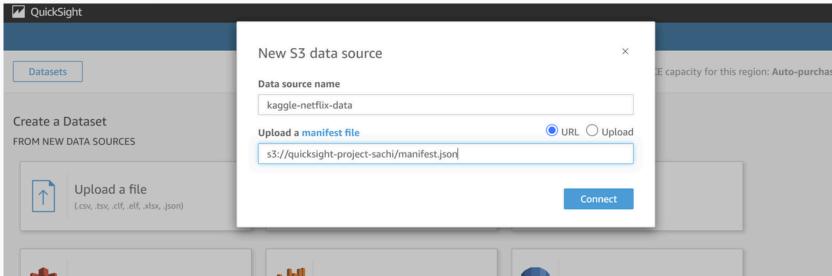**Voila! I created my QuickSight account successfully**

Sachi Bharwada
https://github.com/sachi-bharwada

Connect your S3 bucket to Amazon QuickSight

- During the data source setup process in QuickSight's console, I specified the bucket's ARN (Amazon Resource Name) to link the S3 bucket to QuickSight.

- This phase required careful consideration of the manifest.json file since it contains crucial configuration information, such as data source parameters, that guarantee precise communication and data retrieval between QuickSight and the S3 bucket.
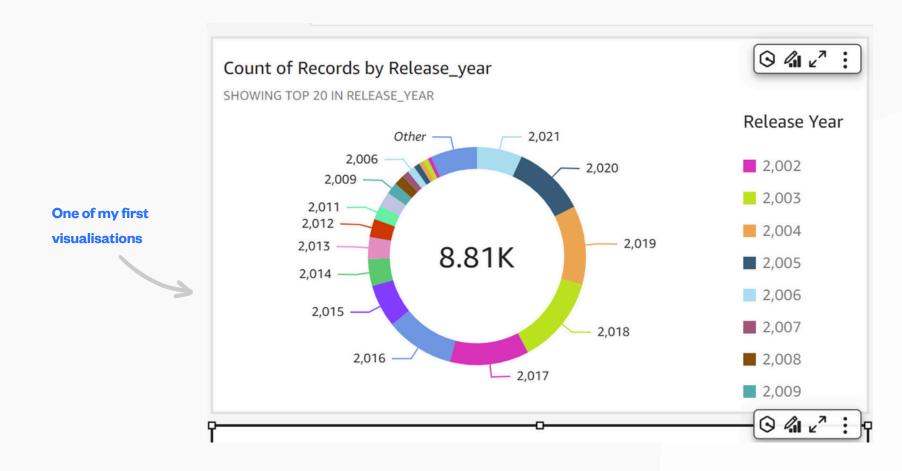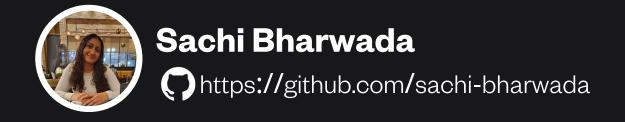
Entering the manifest.json URL

Sachi Bharwada
https://github.com/sachi-bharwada

Let's make visualisations!

- To create visualisation on QuickSight, you'll have to direct to the "Analysis" tab, select "New analysis"

- QuickSight provides a wide range of visualization options, eg. line graphs, bar & pie charts, tables etc
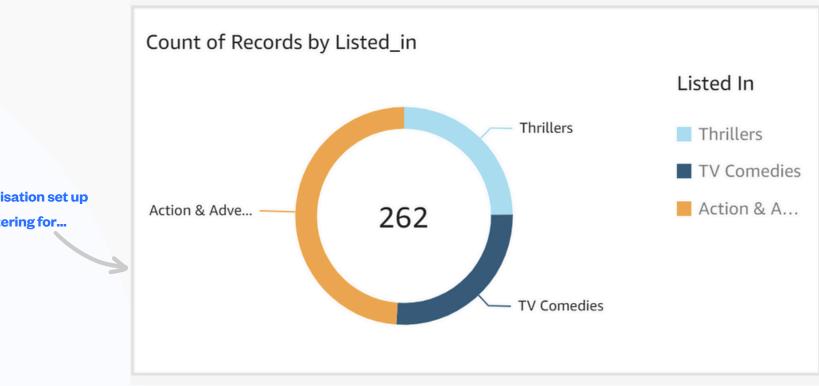
One of my first visualisations

Sachi Bharwada

https://github.com/sachi-bharwada

Using filters

- Filters let users concentrate on particular data subsets according to predefined criteria, which helps improve data visualizations.
- They allow users to focus the analysis, draw attention to pertinent details, and make discoveries that might otherwise be hidden by large datasets.
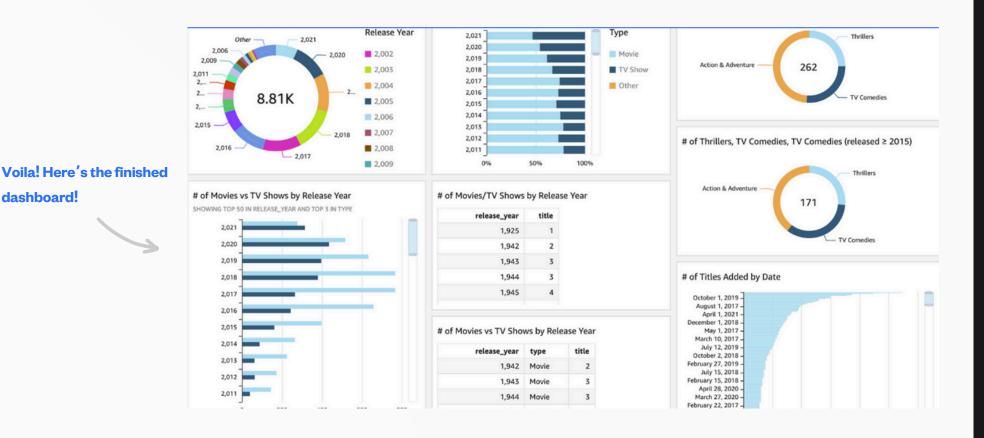
A visualisation set up after filtering for...

Sachi Bharwada
https://github.com/sachi-bharwada

Set up your dashboard!

- Finally, I made sure the visualization followed the best practices for data visualization design by making it as readable, clear, and visually appealing as possible. In order to improve visual appeal, formatting choices like color schemes, font sizes, and axis labels had to be adjusted.

Voila! Here's the finished dashboard!

Find this helpful?

👍 Like this post

💬 Leave a comment

🔖 Save for later

❤️ Let's connect!

Sachi Bharwada

 https://github.com/sachi-bharwada