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Visualize data with QuickSight



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Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based business intelligence tool that helps create interactive dashboards and visualizations. It is useful for quickly analyzing data, integrating with AWS services, and enabling data-driven decisions.

How I used Amazon QuickSight in this project

I used Amazon QuickSight in today's project to connect to my S3 bucket, import Netflix titles data, create visualizations, and apply filters to analyze specific genres and release years for targeted insights.

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

One thing I didn't expect in this project was the need to adjust the manifest file to ensure the data loaded correctly into QuickSight, which was crucial for accurate data visualization and analysis.

This project took me...

This project took me about an hour to complete, including setting up the S3 bucket, adjusting the manifest file, importing data into QuickSight, and creating the visualizations and filters.



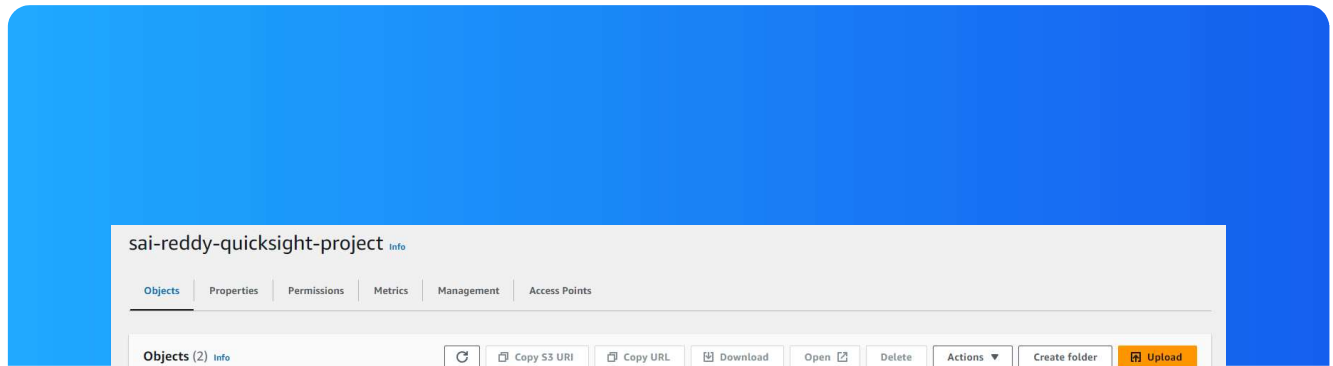
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Upload project files into S3

S3 is used in this project to store two files, which are ``manifest.json`` and ``netflix_titles.csv``. The ``manifest.json`` file provides metadata about the ``netflix_titles.csv`` file, including its location and format details.

I edited the ``manifest.json`` file by updating the file location. It's important to edit this file because it ensures the correct path is used for accessing the ``netflix_titles.csv`` file in S3, allowing proper data handling and processing.



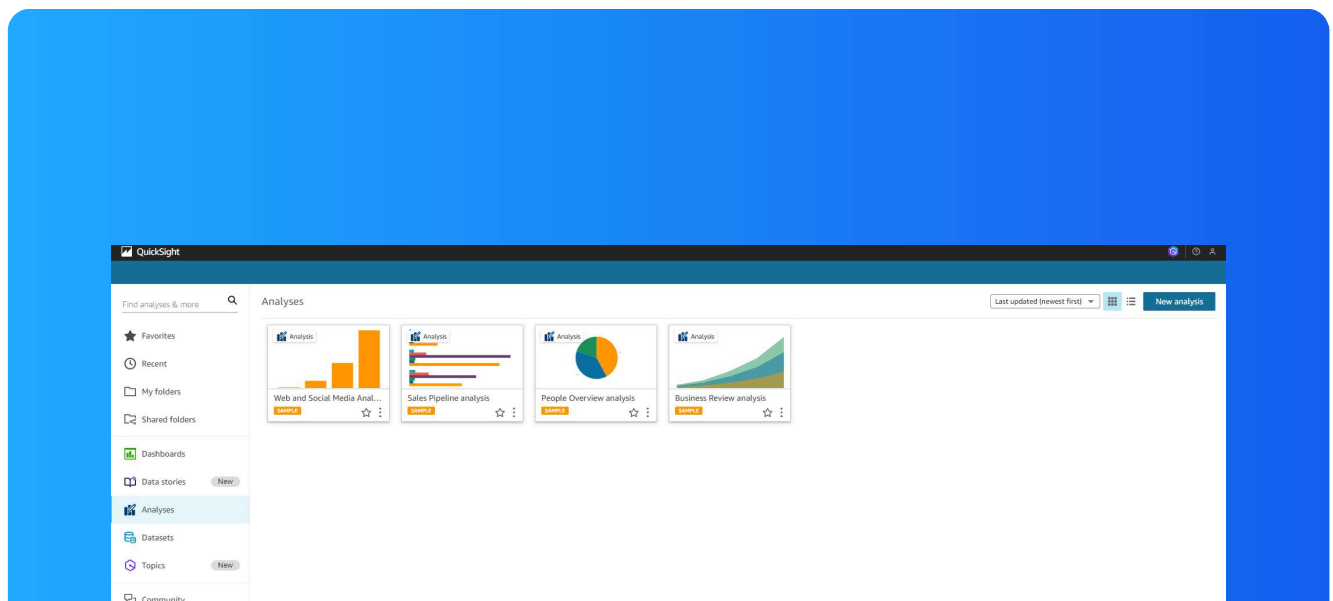
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Create QuickSight account

Creating a QuickSight account costs money as it involves subscription fees based on the chosen pricing plan, either Standard or Enterprise, which charge per user and additional fees for data storage and usage.

Creating an account took me about 10-15 minutes, including setting up user details, choosing a pricing plan, and configuring initial settings.





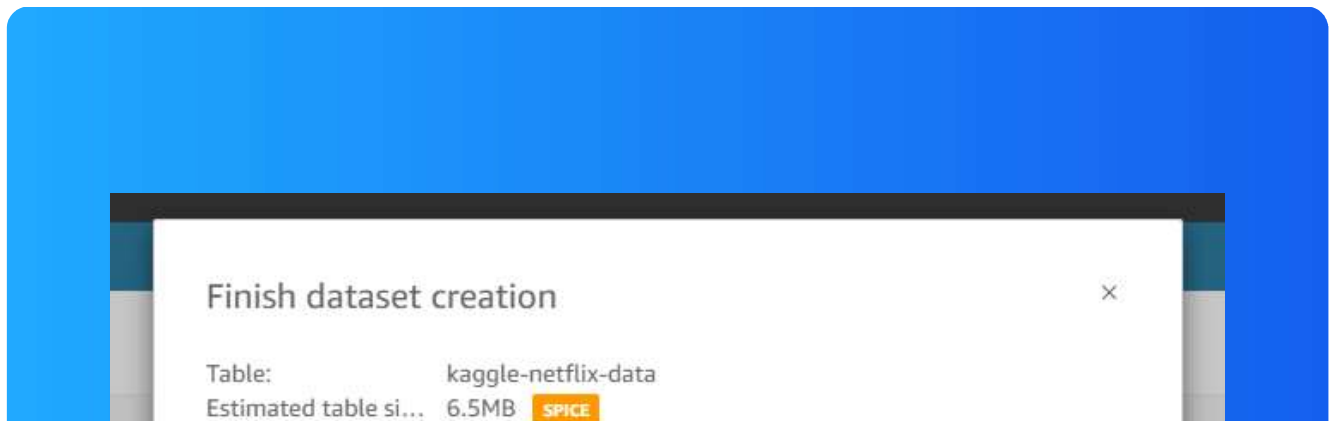
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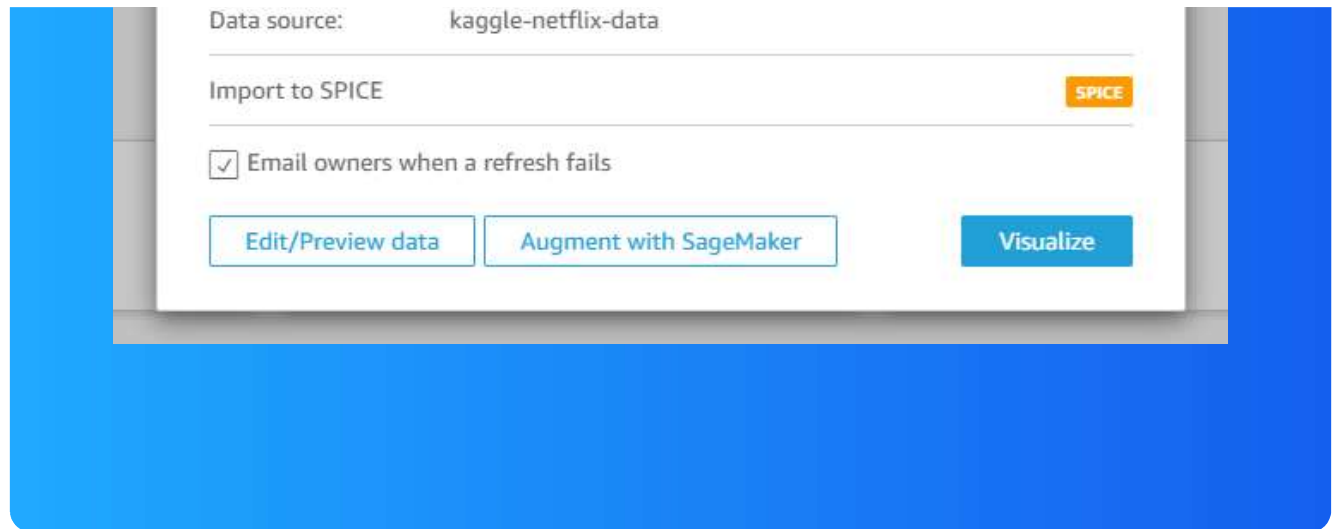
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Download the Dataset

I connected the S3 bucket to QuickSight by visiting the 'Datasets' page and selecting 'New Dataset' to create a connection with my S3 bucket for data analysis.

The `manifest.json` file was important in this step because it specifies the location and format of the `netflix_titles.csv` file in the S3 bucket, ensuring QuickSight can correctly access and interpret the data for analysis.





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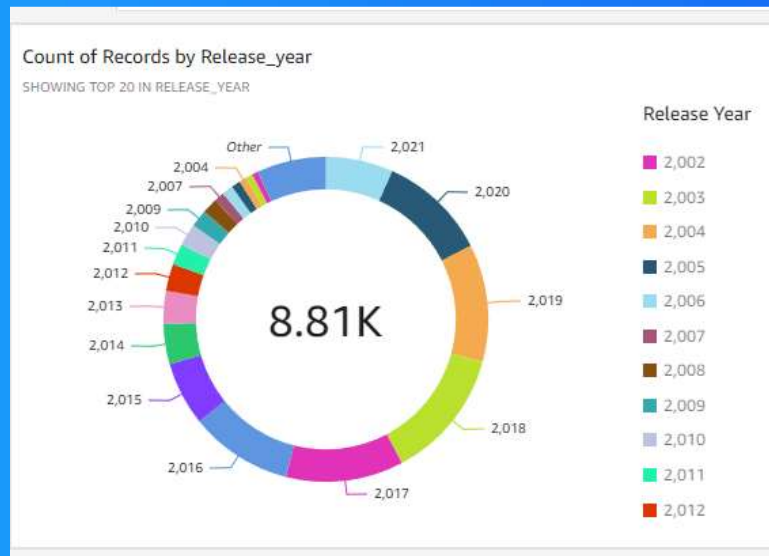
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My first visualization

To create visualizations on QuickSight, I selected a dataset, chose the types of charts I wanted, dragged and dropped fields onto the visual canvas, and customized the visuals by adjusting settings and filters to display the data effectively.

The chart shown here is a breakdown of the count of records by release year, using a donut chart. It shows the number of titles released each year, with different colors representing each year and the total count displayed in the center (8.81K).

I created this graph by dragging and dropping the 'Release_year' field into the visual canvas and using the 'Count of Records' as the measure. The chart type was set to a donut chart to display the distribution of records by release year.



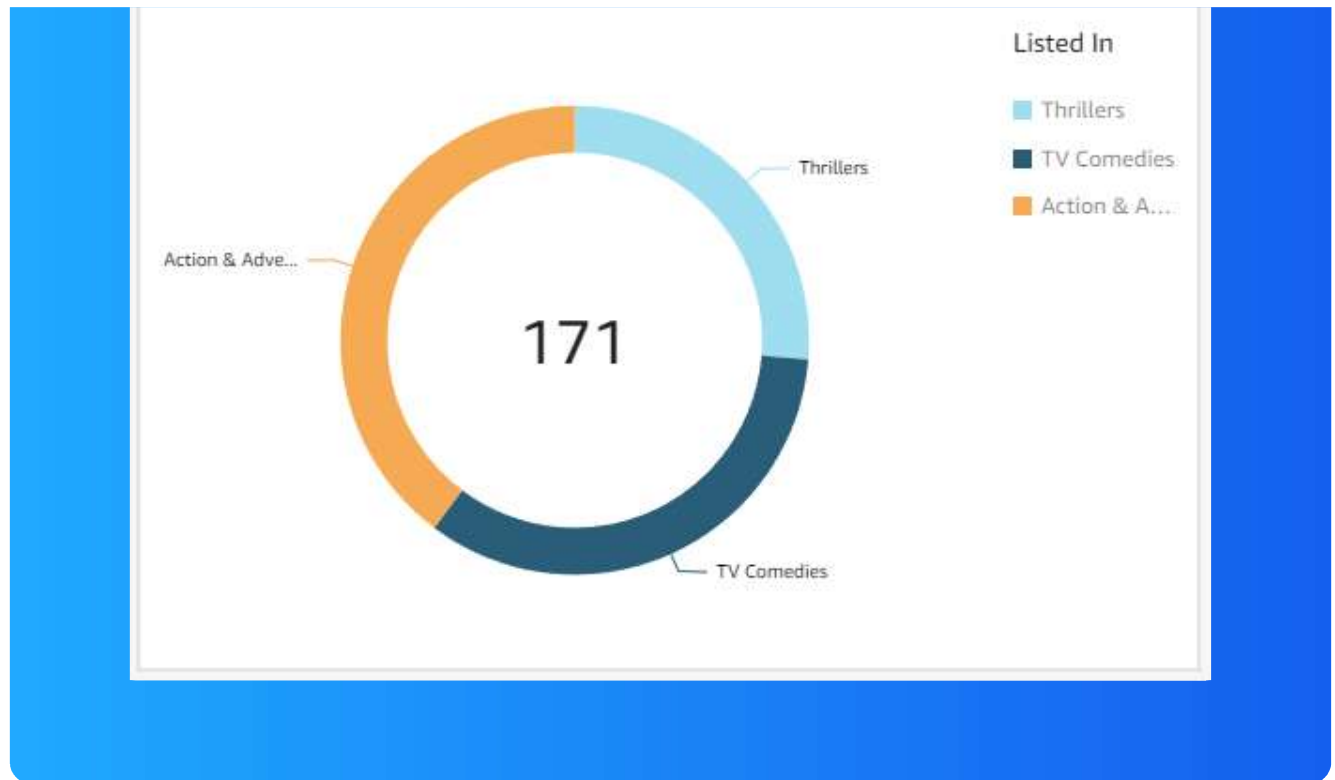
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Using filters

Filters are useful for refining the visualization by allowing you to focus on specific data ranges or categories, which helps in analyzing targeted information and drawing more precise insights from the data set.

This visualization is a breakdown of records by genre, showing the count for Thrillers, TV Comedies, and Action & Adventure, I added filters for the `Listed_in` field and limited the data to titles released in 2015 and later.



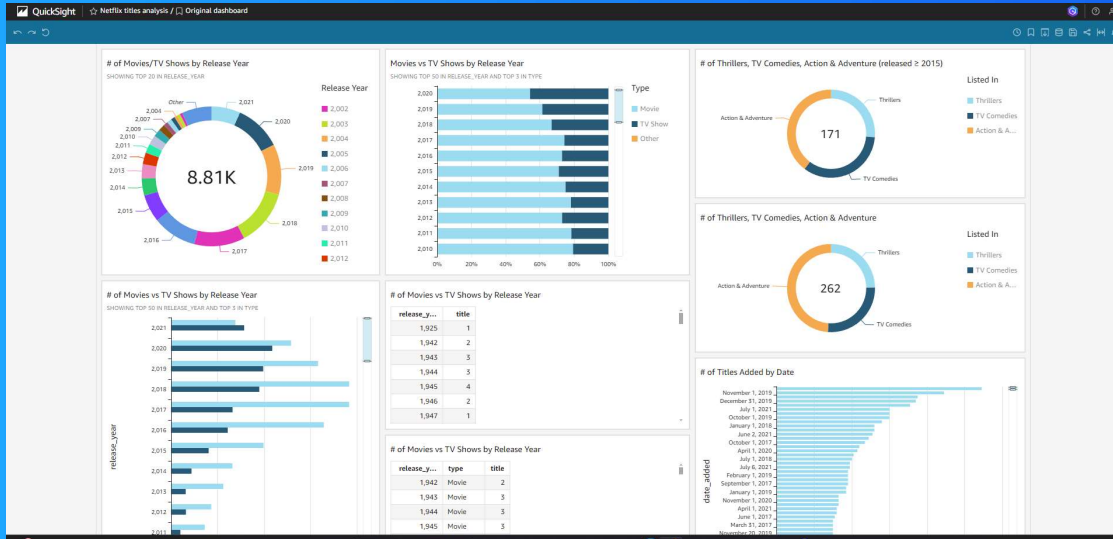
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Setting up a dashboard

As a finishing touch, I added titles to the charts for clarity and gave a name to the dashboard to make it easily identifiable and more professional before publishing.

Did you know you could export your dashboard as PDFs too? I did this by going to the dashboard's menu, selecting the "Export" icon, choosing "Generate PDFs," and then configuring the settings before downloading the file.



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job they love.

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