



Netflix Movies Analysis

A brief visual-analysis of the Netflix Movies using Amazon Quicksight

How I used Amazon Quicksight to Visualize Data?

What Were the Learnings ?



Milestone 1

S3 Bucket Creating

Milestone 2

Data Upload



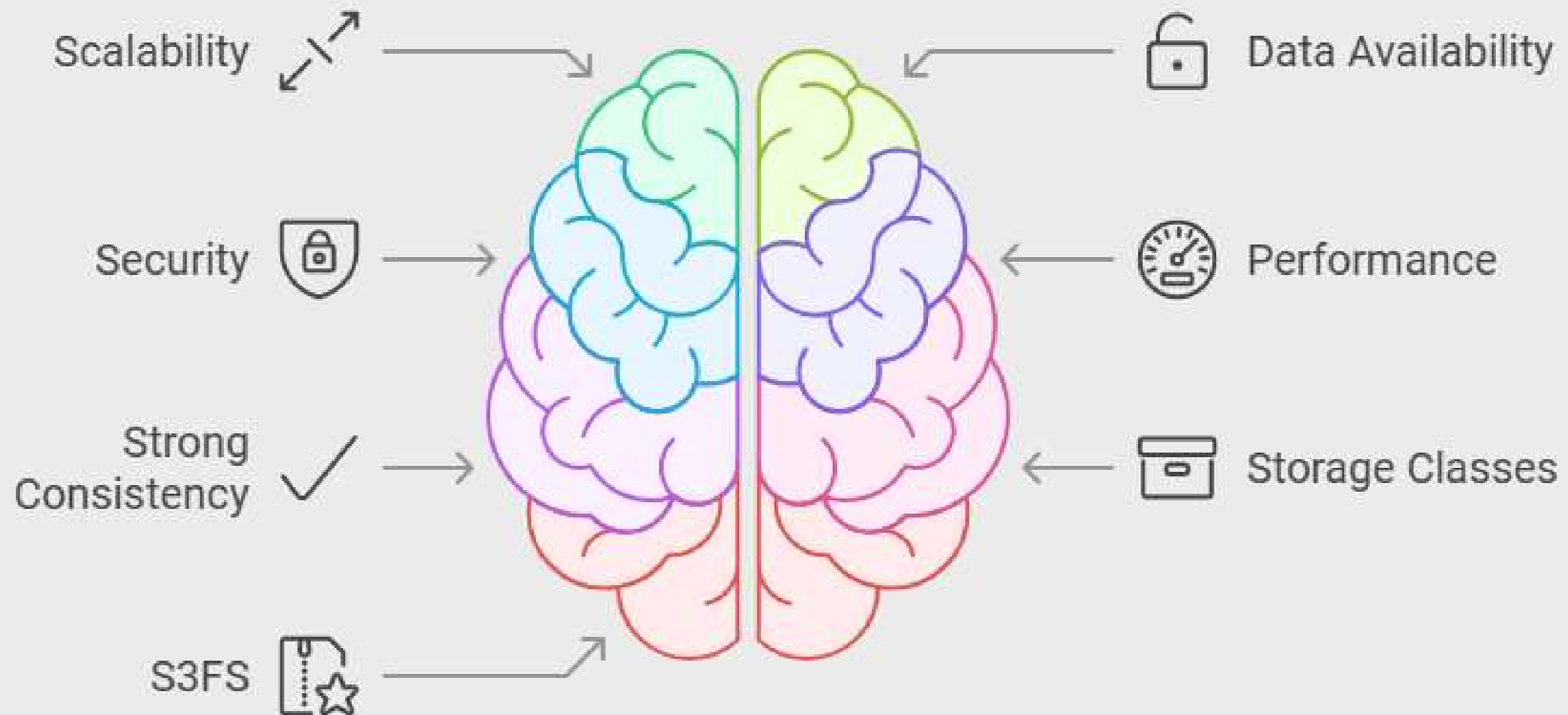


Data Visualization

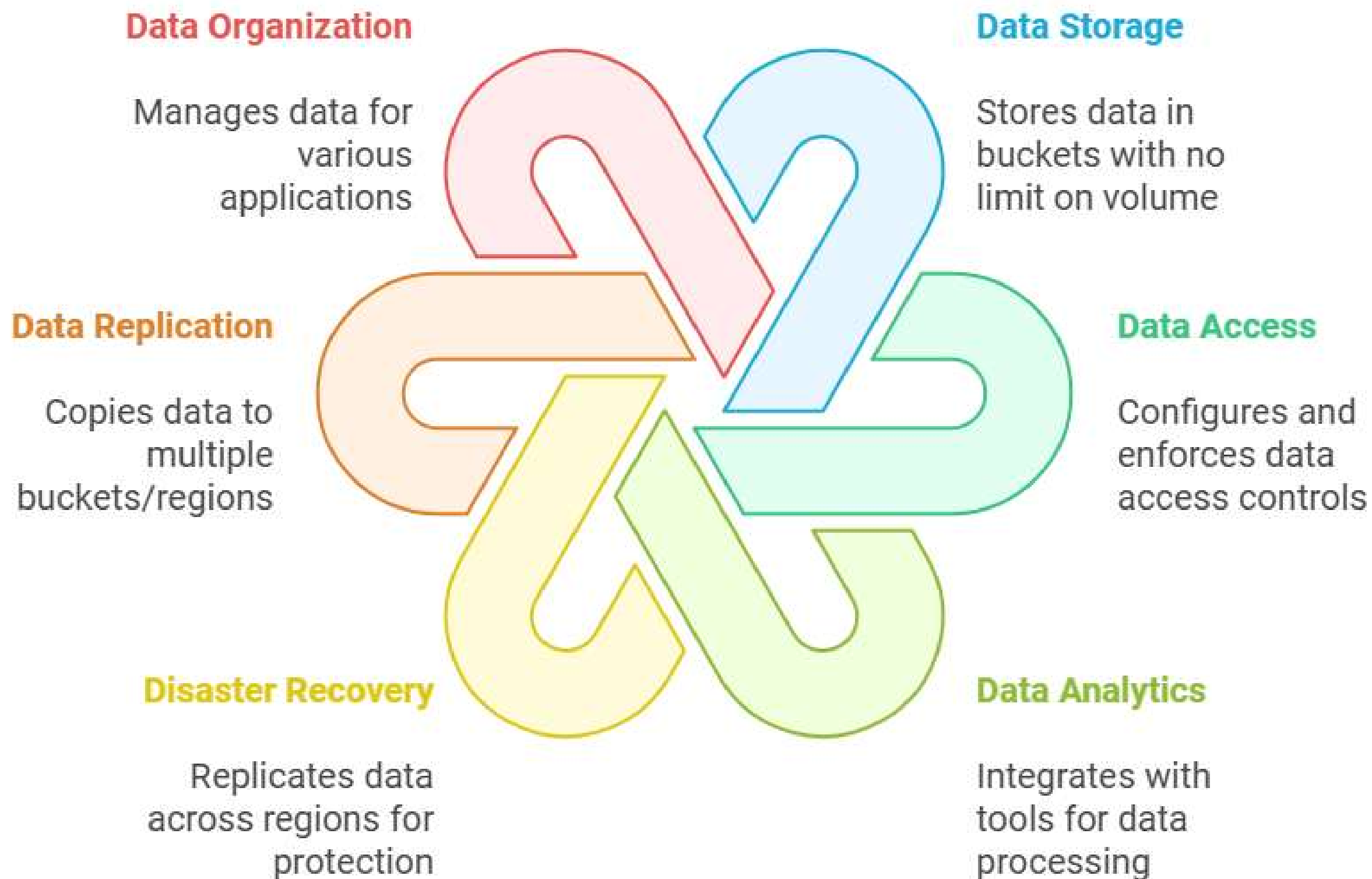
Data Presenting

I. Introducing Amazon S3

Overview of Amazon S3 Features







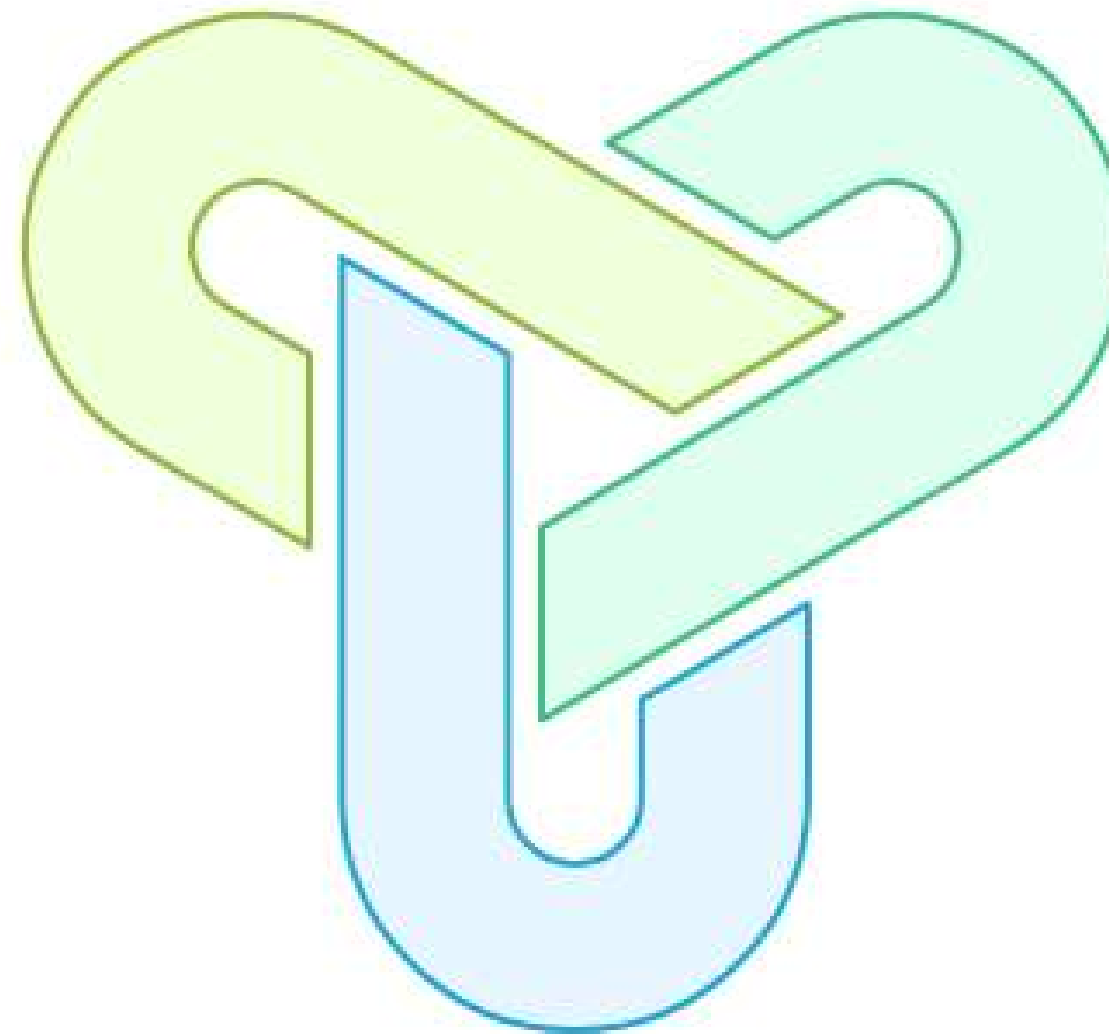
What it does ? How is it useful ?



Project Data Management Overview

Application Connection

Establishing connections for the application



Data Storage

Using data as a storage and source for analysis

Manifest File Loading

Loading JSON manifest for data guidance



Summary

Destination

s3://aws-quicksight-netflixviz

Succeeded

✓ 1 file, 274.0 B (100.00%)

Failed

✗ 0 files, 0 B (0%)

Some common configuration steps to consider :

- The bucket's Region: I choose AWS East which is nearby to my location which cause low latency
- Access Control Lists: I chose bucket policies for general purpose
- Bucket versioning: It allows to store multiple versions of the bucket, I left default.
- Public Access: I set as publicly accessed for bucket, which means it can be accessed from anywhere with right request.

III. Data Structure

- Following csv data and table structure was used for analysis purpose.



show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
s1	Movie	Dick Johnson	Kirsten Johnson		United States	25-Sep-21	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmmaker Kirsten Johnson stages his death in inventive and
s2	TV Show	Blood & Water		Ama Qamata, Khosi Ngema, Gail	South Africa	24-Sep-21	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town teen sets out to prove whether a private-school
s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas,		24-Sep-21	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Action &	To protect his family from a powerful drug lord, skilled thief Mehdi and his expert team of robbers
s4	TV Show	Jailbirds New				24-Sep-21	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down among the incarcerated women at the Orleans Justice Center
s5	TV Show	Kota Factory		Mayur More, Jitendra Kumar,	India	24-Sep-21	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV	In a city of coaching centers known to train India's finest collegiate minds, an earnest but

IV. Bucket Contents

aws

Search

[Alt+S]

N. Virginia

paudel7@hotmail.co

Amazon S3 > Buckets > aws-quicksight-netflixviz

aws-quicksight-netflixviz

ObjectsMetadata - PreviewPropertiesPermissionsMetricsManagementAccess Points

Objects (2)

Copy S3 URICopy URLOpenDownloadDeleteActionsCreate folderUpload

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](#)

Find objects by prefix

Name	Type	Last modified	Size	Storage class
manifest.json	json	December 31, 2024, 08:59:07 (UTC-05:00)	274.0 B	Standard
netflix_titles.csv	csv	December 31, 2024, 08:46:49 (UTC-05:00)	3.2 MB	Standard

Following **data & support** file has been uploaded:

- **netflix_titles.csv**

Source: Kaggle

- **manifest.json**: it was updated with the appropriate URI so that connection to dataset would go to the proper address.

V. Amazon Quicksight

- Quicksight, need to be created as an individual application and connected using updated manifest file with the previously uploaded dataset. This is where the edit of manifest file is significant.
- Quicksight had to access to S3 for connection purpose. It did not costs at the moment but had to delete the resource use after activities were done to avoid costing.

New S3 data source



Data source name

kaggle-netflix

Upload a [manifest file](#)

☒ URL ☐ Upload

<https://aws-quicksight-netflixviz.s3.us-east-1.amazonaws.com/manifest.json>

Connect

Find analyses & more

★ Favorites

🕒 Recent

📁 My folders

🔗 Shared folders

📊 Dashboards


📖 Data stories

📈 Analyses

📄 Datasets

Analyses

Analysis

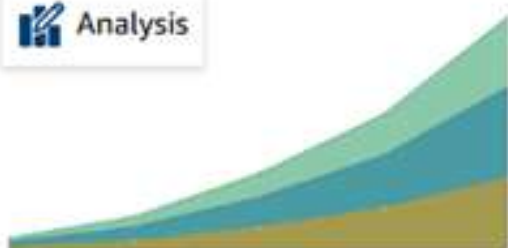


Sales Pipeline analysis

SAMPLE

☆ ⋮

Analysis

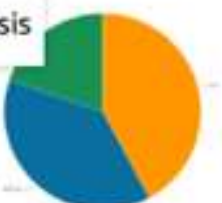


Business Review analysis

SAMPLE

☆ ⋮

Analysis



People Overview analysis

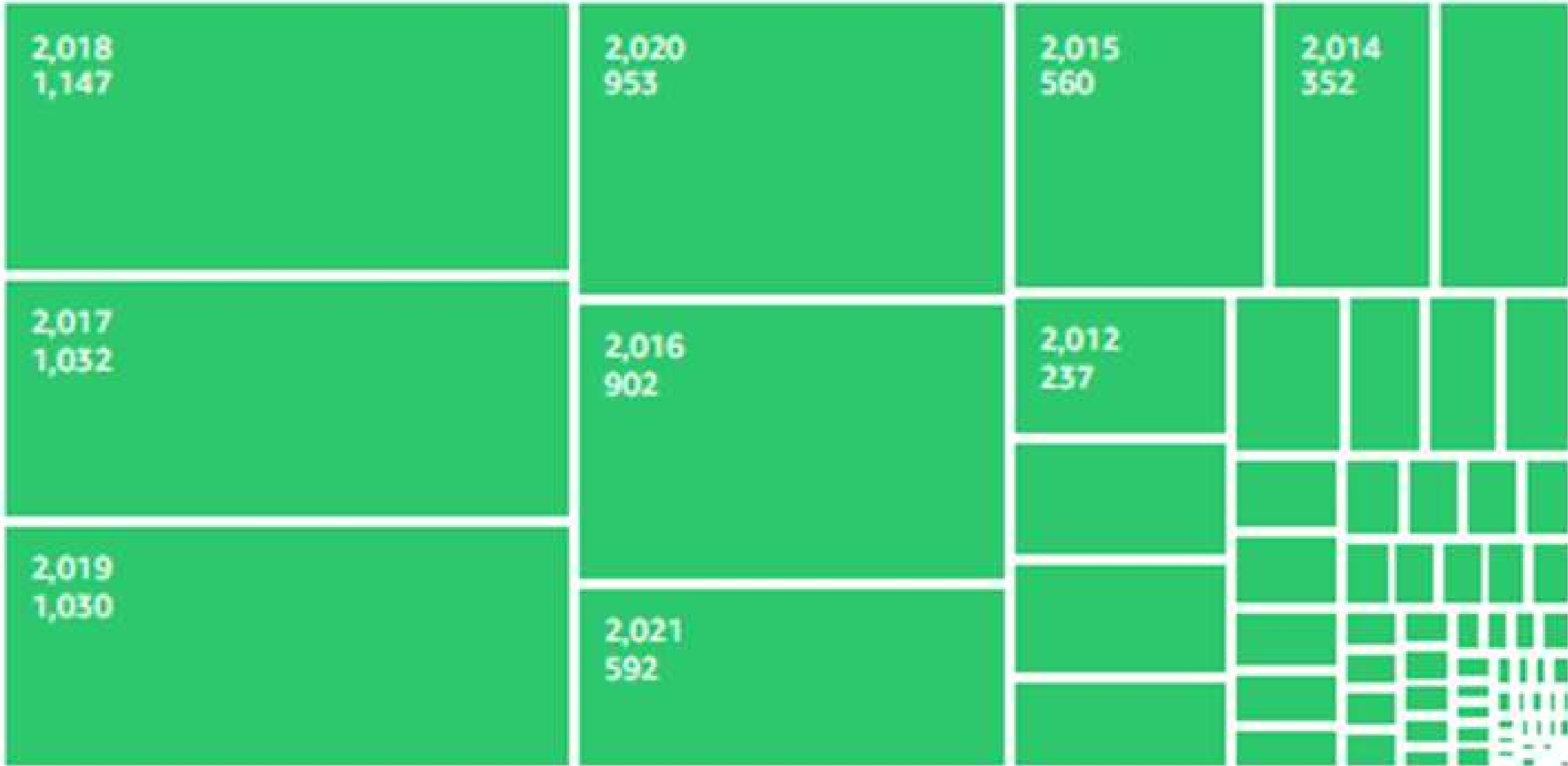
SAMPLE

☆ ⋮

VI. Visualization

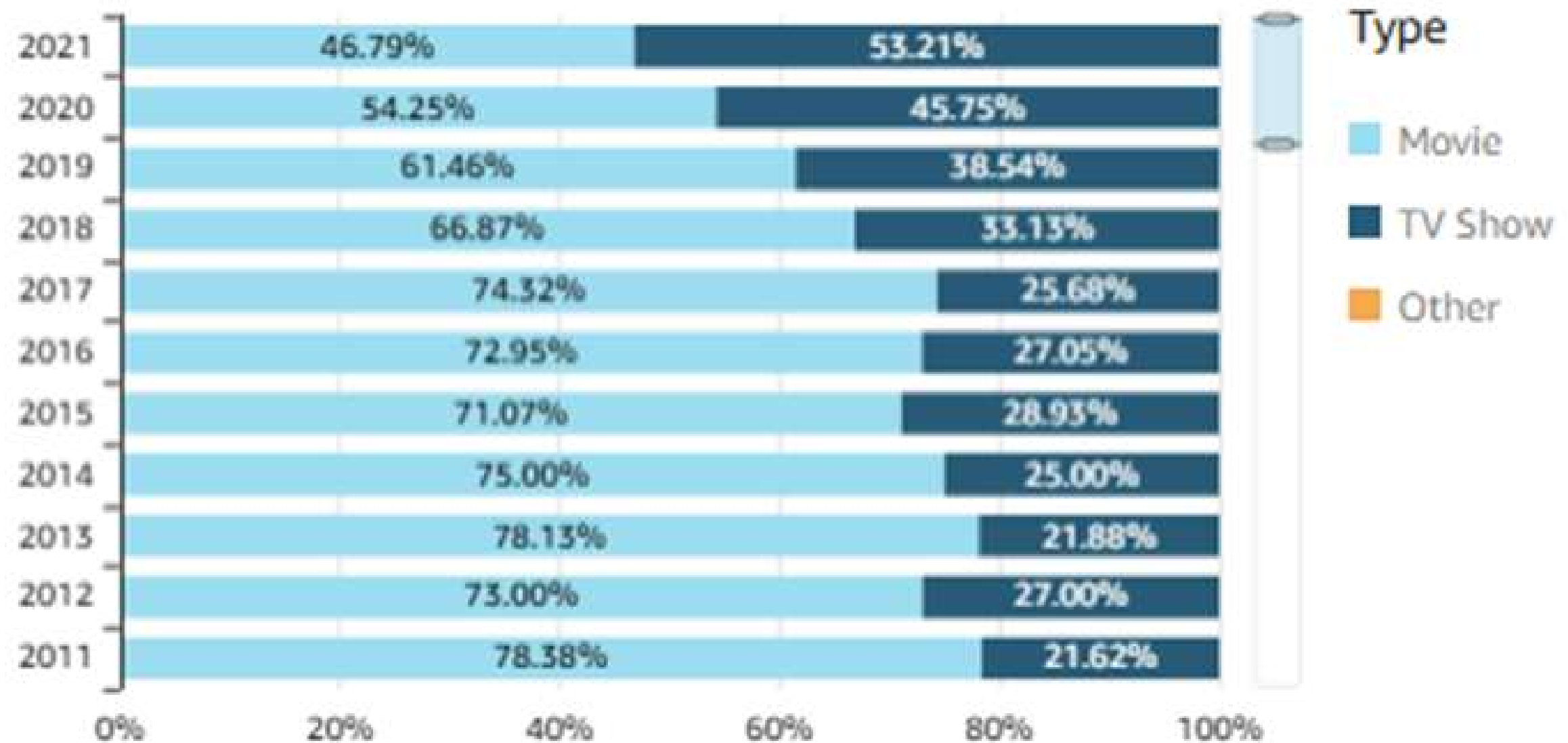
- To initiate visualization, columns were dragged into AutoGraph space by choosing the appropriate visualizations type and configuring its settings to modify as per the need of analytics.

No. of Movies, TV Shows by Release Year



No. of Movies, TV Shows by Release Year & Title

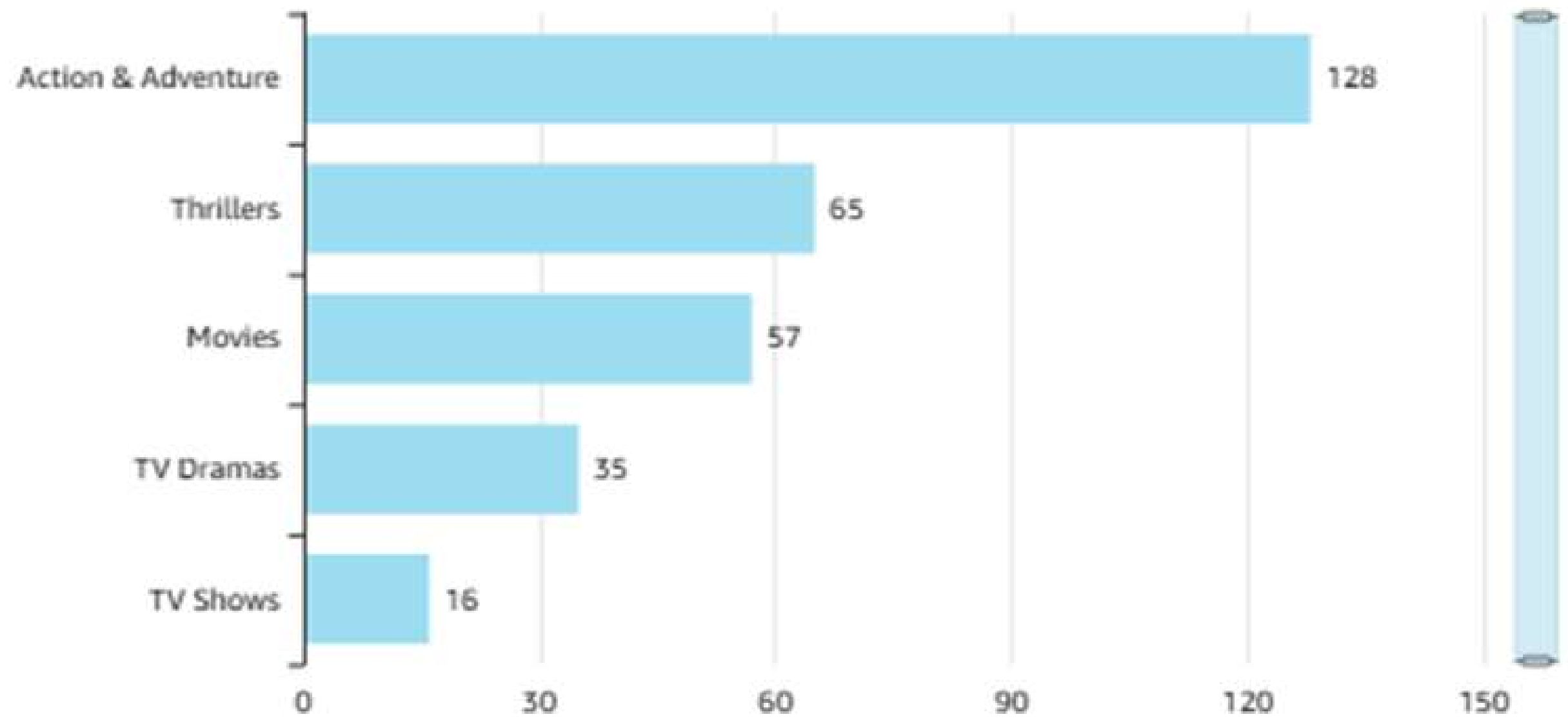
SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE



VII. Data Preparation for Time-Bound Analytics

- For Time-bound Analysis filters were used here to subset from the data columns excluding irrelevant data. Here, only 5 categories were filtered for the period of 2015 and onwards.

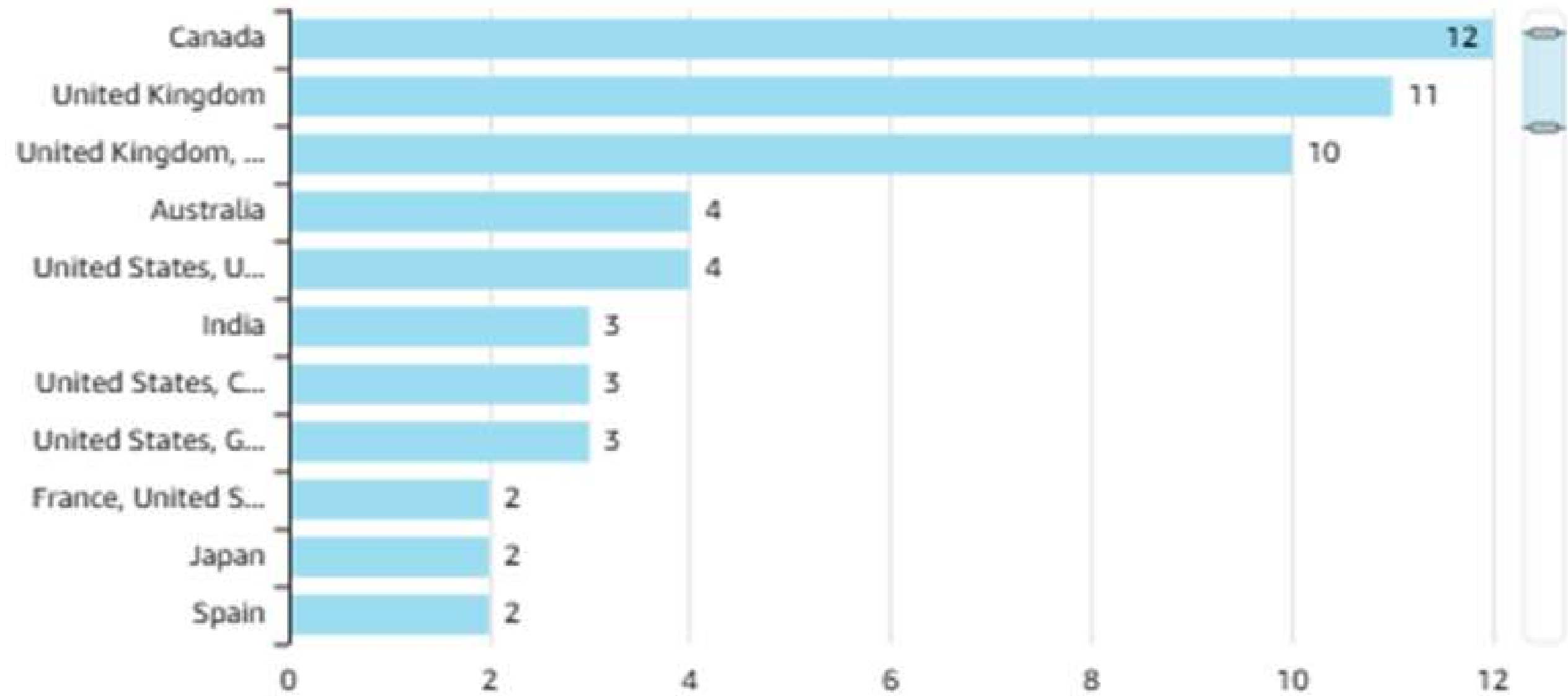
No. of Listing Per Selected Categories



No. of Listing Per Selected Categories



No. of Listing by Countries



No. of Releases

- Observe the no. of Movies and TV Shows release at the initial and last 10 years. Initially, Movies were the most, but finally TV Shows were the only production.

No. of Releases Per Year

release_year	type	title
1942	Movie	2
1943	Movie	3
1944	Movie	3
1945	Movie	3
1946	Movie	1

1947	Movie	1
1954	Movie	2
1955	Movie	3
1956	Movie	2
1958	Movie	3

2012	TV...	64
2013	TV...	63
2014	TV...	88
2015	TV...	162
2016	TV...	244
2017	TV...	265

2018	TV...	380
2019	TV...	397
2020	TV...	436
2021	TV...	315

VIII. Dashboard Preparation & Publishing

- Titles of the graphs were updated for appropriate title.
- Exporting features of either of pdf or image formats were observed.
- Finally the dashboard was allowed to publish and similarly links for sharing was also available.

No. of Movies, TV Shows by Release Year

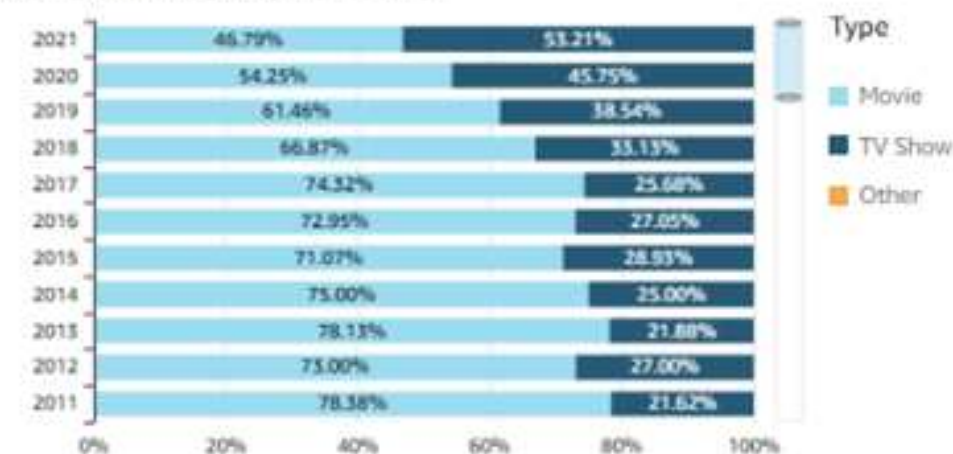


No. of Releases Per Year

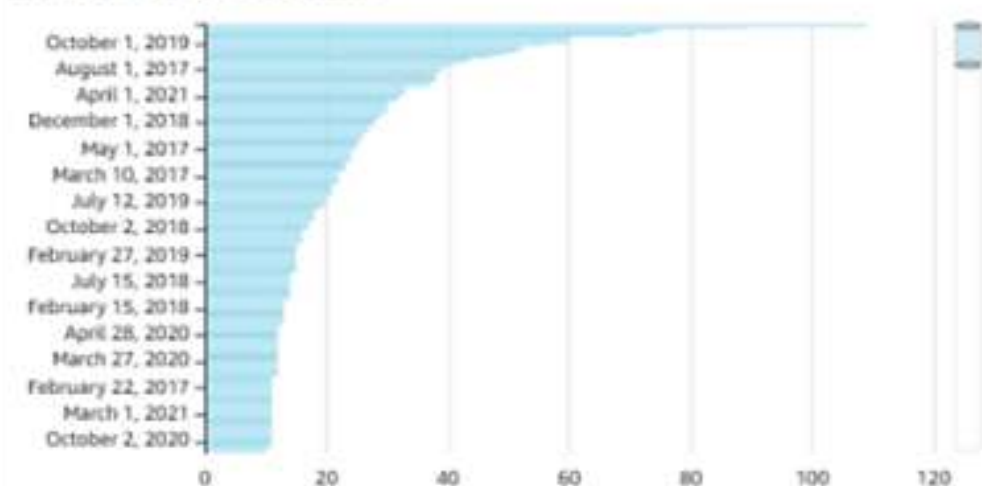
release_year	type	title
1989	TV ...	1
1990	TV ...	3
1991	TV ...	1
1992	TV ...	3
1993	TV ...	4
1994	TV ...	2
1995	TV ...	2
1996	TV ...	3
1997	TV ...	4
1998	TV ...	4
1999	TV ...	7
2000	TV ...	4
2001	TV ...	5
2002	TV ...	7
2003	TV ...	10
2004	TV ...	9
2005	TV ...	13
2006	TV ...	14
2007	TV ...	14
2008	TV ...	23
2009	TV ...	34
2010	TV ...	40
2011	TV ...	40
2012	TV ...	64
2013	TV ...	63
2014	TV ...	88
2015	TV ...	162
2016	TV ...	244
2017	TV ...	265
2018	TV ...	380
2019	TV ...	397
2020	TV ...	436
2021	TV ...	315

No. of Movies, TV Shows by Release Year & Title

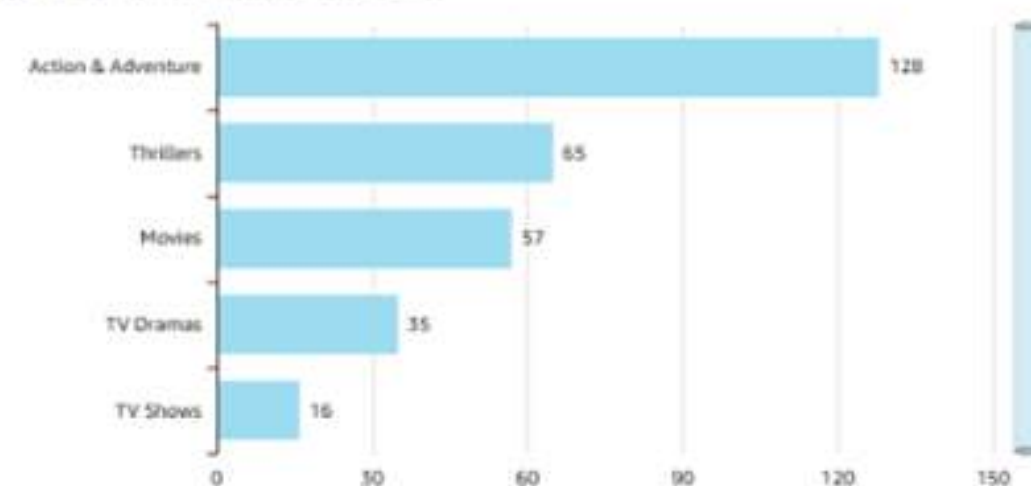
SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE



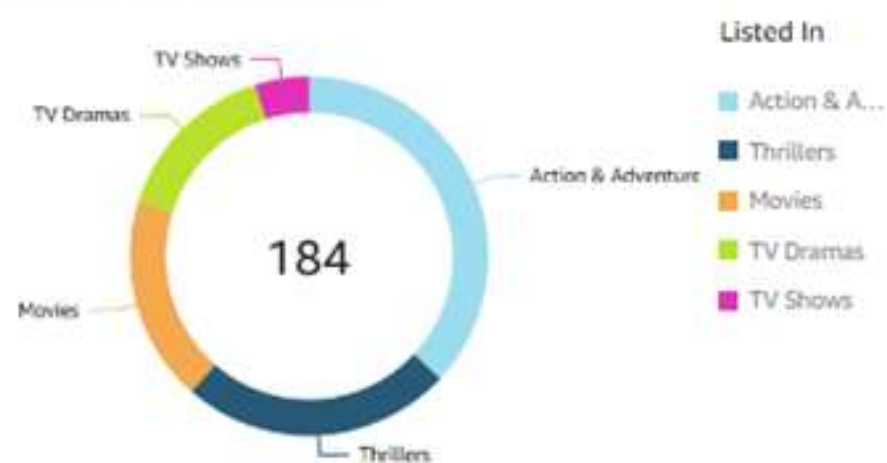
Count of Title by Date_added



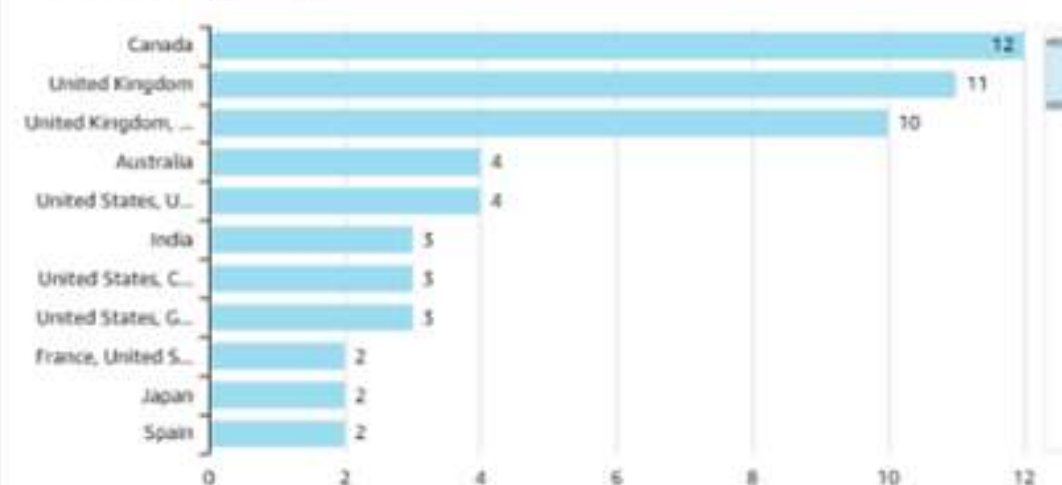
No. of Listing Per Selected Categories



No. of Listing Per Selected Categories



No. of Listing by Countries



- Setting up Amazon S3 was straightforward, while the initial configuration for Amazon QuickSight felt a bit confusing. However, the default setup proved to be highly effective for standard use cases.
- Amazon QuickSight is an excellent, interactive analytics tool. Creating visualizations was easier than expected, thanks to its user-friendly interface and helpful guided prompts.
- The variety of visualization types and the ability to apply filters and calculated measures stood out as game-changing features, making data analysis more insightful and efficient.
- Features like dashboard collaboration and exporting options further enhance its usability, making it a fantastic tool for both individual and team analytics.

