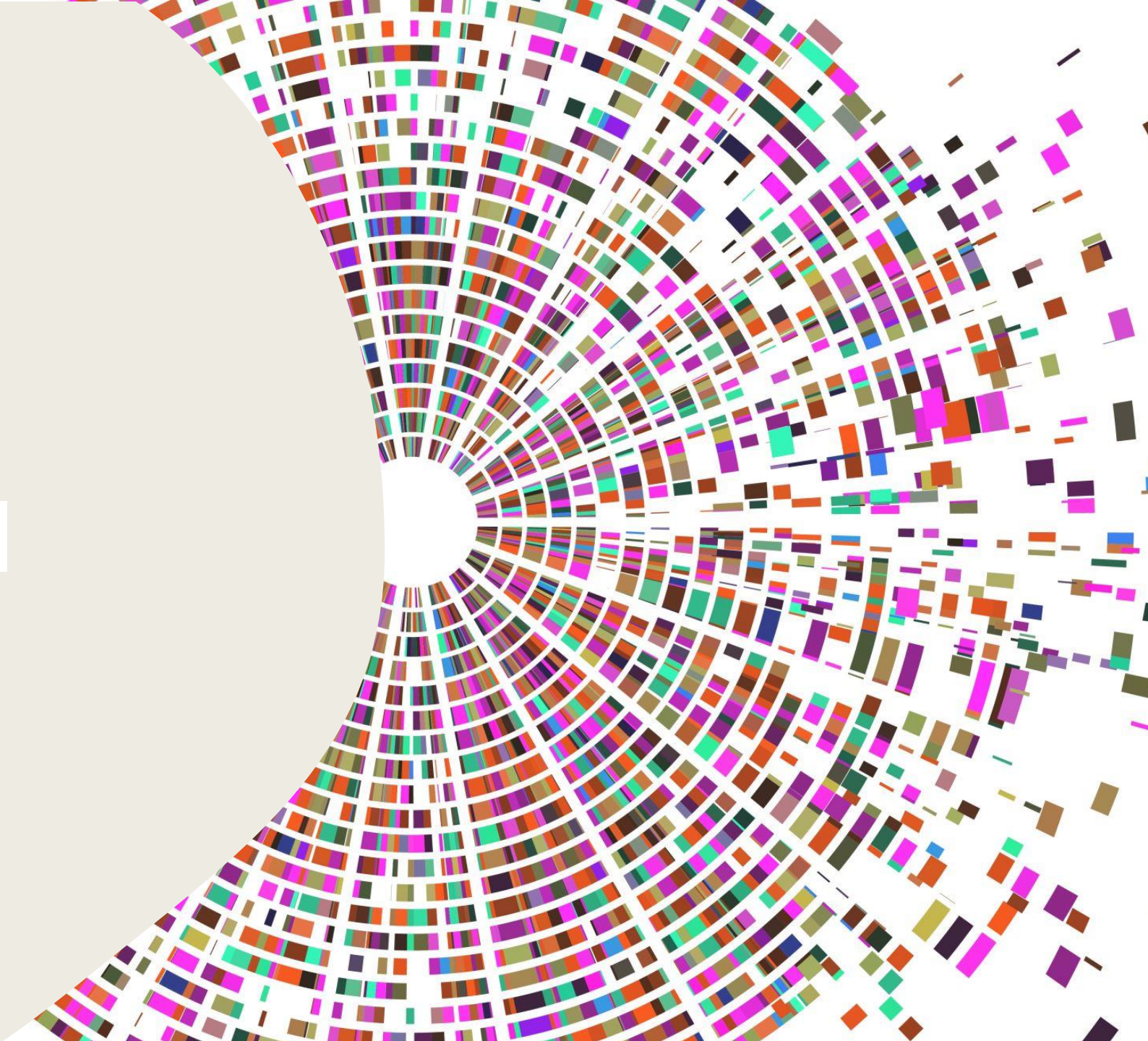


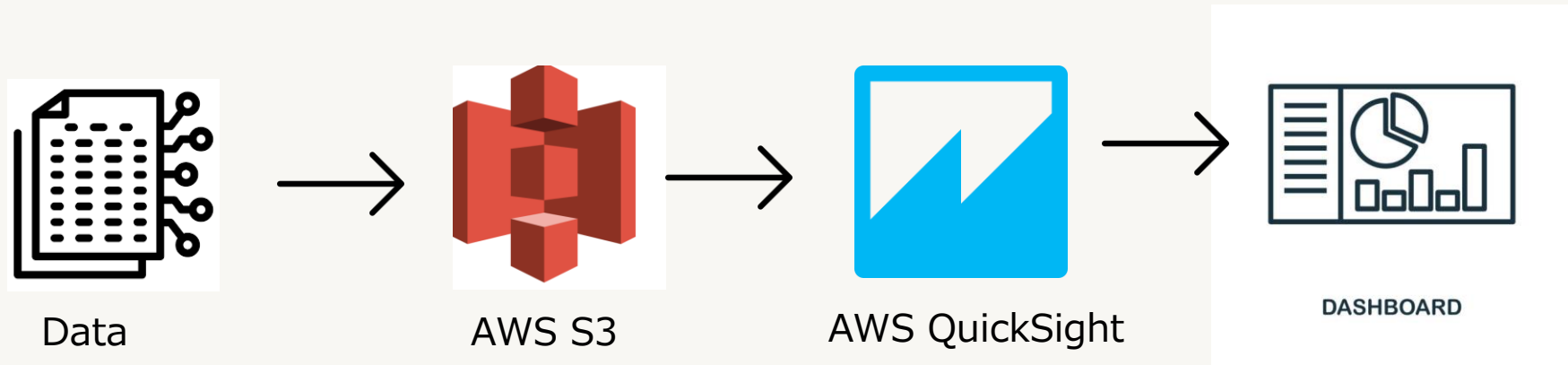
**NETFLIX DATA
ENGINEERING: S3
INTEGRATION AND
VISUALIZATION WITH
QUICKSIGHT**



OBJECTIVE:

To demonstrate the end-to-end data engineering process of integrating, storing, and visualizing Netflix content data using Amazon S3 and QuickSight, thereby providing valuable insights into the extensive content library and facilitating informed decision-making.

WORKFLOW:

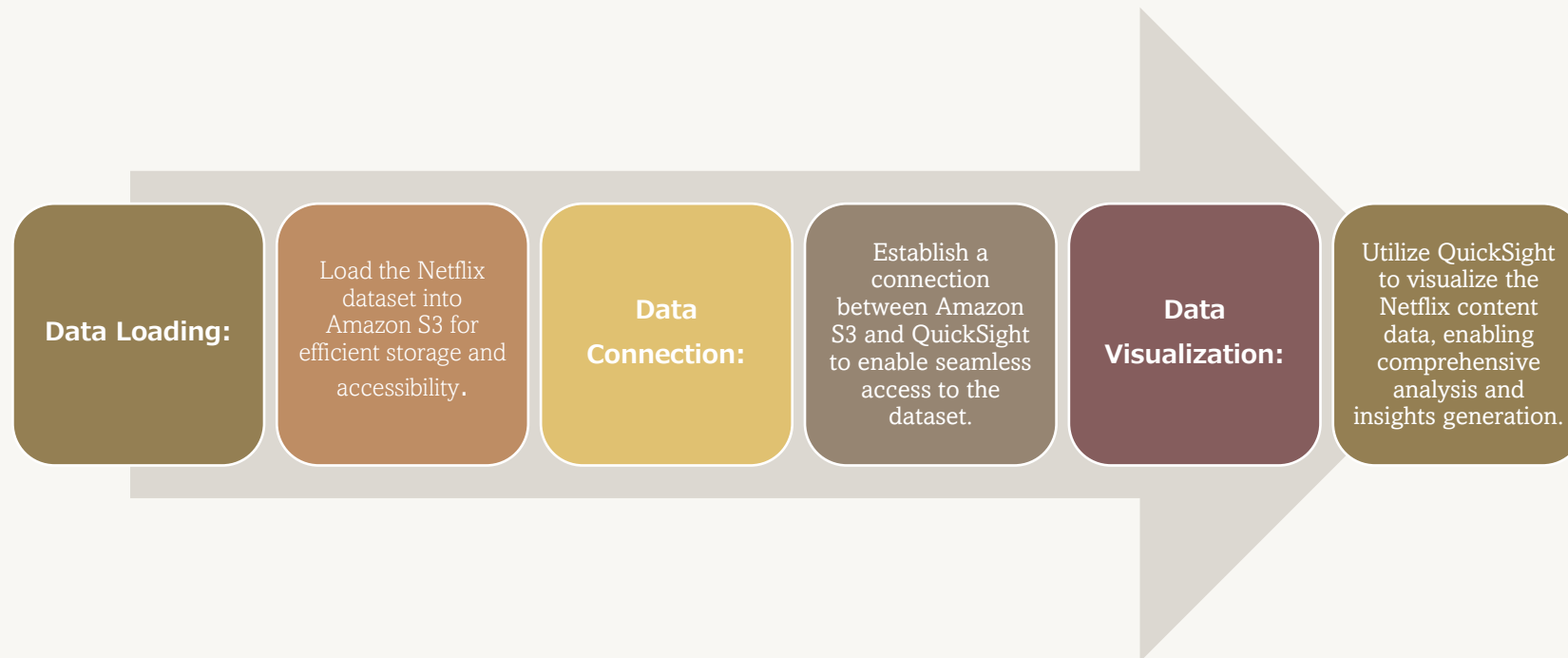


C	D	E	F	G	H	I	J	K	L
	director	cast	country	date_added	release_year	rating	duration	listed_in	description
Johnson Is Dead	Kirsten Johnson		United States	25-Sep-21	2020	PG-13	90 min	Documentaries	As her father
Isle of Dogs & Water		Ama Qamata, Khosi Ngema, Gail Mazarire	South Africa	24-Sep-21	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Movies	After cr
Land	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabiha Akkari, Samir Ghanem		24-Sep-21	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows	To prote
Land: New Orleans				24-Sep-21	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds,
Land: Factory		Mayur More, Jitendra Kumar, Ravi Varma	India	24-Sep-21	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows	In a city
Land: Night Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, Henry Thomas		24-Sep-21	2021	TV-MA	1 Season	TV Dramas, TV Horror, TV Mysteries	The arri
Land: Little Pony: A New Generation	Robert Cullen, Joselynne Whang	Vanessa Hudgens, Kimiko Glenn, James Marsden, Sofia Carson		24-Sep-21	2021	PG	91 min	Children & Family Movies	Equestria
Land: Maafa	Haile Gerima	Kofi Ayim, Nana Oye, Funmi Ogun	United States, Ghana, Burkina Faso	24-Sep-21	1993	TV-MA	125 min	Dramas, Independent Movies, International Movies	On a ph
Land: Great British Bake Off	Andy Devonshire	Mel Giedroyc, Noel Fielding, Mary Berry	United Kingdom	24-Sep-21	2021	TV-14	9 Seasons	British TV Shows, Reality TV	A talent
Land: Darling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd	United States	24-Sep-21	2021	PG-13	104 min	Comedies, Dramas	A woma
Land: Petta: Truth, Lies and The Mafia				24-Sep-21	2021	TV-MA	1 Season	Crime TV Shows, Docuseries, International TV Shows	Sicily bo
Land: Monk Breakin'	Kongkiat Komesiri	Sukollawat Kanarot, Sushar Manaying, Pavarit Mongkolpisit		23-Sep-21	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows	Strugglin
Land: Is Karl	Christian Schwochow	Luna Wedel, Jannis Niewöhne, Jochen Huth, Uwe Krogar	Germany, Czech Republic	23-Sep-21	2021	TV-14	127 min	Dramas, International Movies	After m
Land: Missions of a Lifetime	Bruno Garotti	Klara Gastaldi, Lucca Bortoluzzi, Giulia Giamberini, Marcus Bess		23-Sep-21	2021	TV-PG	91 min	Children & Family Movies, Comedies	When th
Land: Stories: India Detectives				22-Sep-21	2021	TV-MA	1 Season	British TV Shows, Crime TV Shows, Documentaries	Camera
Land: White People		Logan Lerman, Gugu Mbatha-Ra, Jesse Plemons	United States	22-Sep-21	2021	TV-MA	1 Season	TV Comedies, TV Dramas	Student
Land: e's Most Dangerous	Pedro de Echave García, Pablo Azorín, Williams			22-Sep-21	2020	TV-MA	67 min	Documentaries, International Movies	Declass
Land: Identidad		Luis Ernesto Franco, Camila Sosa	Mexico	22-Sep-21	2020	TV-MA	2 Seasons	Crime TV Shows, Spanish-Language TV Shows	Strange
Land: ion	Adam Salky	Freida Pinto, David Dastmalchian, John Brinkley		22-Sep-21	2021	TV-14	94 min	Thrillers	After a c
Land: r		Blanca Suárez, Iván Marcos, Áscar Casas, Adrián Lastra		22-Sep-21	2021	TV-MA	1 Season	International TV Shows, Spanish-Language TV Shows	In the 1
Land: Characters Inside: The	Olivier Megaton			22-Sep-21	2021	TV-MA	1 Season	Crime TV Shows, Docuseries, International TV Shows	In the la
Land: Direction: Erugul		Engin Altan Dündar, Serdar Gökhan	Turkey	22-Sep-21	2018	TV-14	5 Seasons	International TV Shows, TV Action & Adventure	When a
Land: Shanmughi	K.S. Ravikumar	Kamal Hassan, Meena, Gemini Ganesan, Heera Rajgopal, Kalyan		21-Sep-21	1998	TV-PG	161 min	Comedies, International Movies	Newly d
Land: o! Cory Car	Alex Woo, Stanley McLean	Maiya Quah, David Kwiat, Kerry Gudjohnsen, AC Lim		21-Sep-21	2021	TV-Y	61 min	Children & Family Movies	From an
Land:	S. Shankar	Prashanth, Aishwarya Rai Bachchan	India	21-Sep-21	1998	TV-14	166 min	Comedies, International Movies, Romantic Movies	When th
Land: on the Spectrum		Brooke Satchwell	Australia	21-Sep-21	2021	TV-14	2 Seasons	Docuseries, International TV Shows, Reality TV	Finding
Land: ara Kanavu	Rajiv Menon	Arvind Swamy, Kajol, Prabhu Deva, Nassar, S.P. Balasubrah		21-Sep-21	1997	TV-PG	147 min	Comedies, International Movies, Music & Musicals	A tangle
Land: n Ups	Dennis Dugan	Adam Sandler, Kevin James, Christopher McDonald	United States	20-Sep-21	2010	PG-13	103 min	Comedies	Mournin
Land: Skies	Scott Stewart	Keri Russell, Josh Hamilton, J.K. Simmons	United States	19-Sep-21	2013	PG-13	97 min	Horror Movies, Sci-Fi & Fantasy	A family
Land: oia	Robert Luketic	Liam Hemsworth, Gary Oldman, Michael Fassbender	United States, India, France	19-Sep-21	2013	PG-13	101 min	Thrillers	Blackm

Data

The dataset comprises comprehensive listings of movies and TV shows available on Netflix, including details such as titles, directors, cast, countries of production, release years, ratings, durations, genres, and brief descriptions. This rich dataset offers insights into the diverse range of content offered by Netflix, catering to various genres and audiences worldwide.

Process:

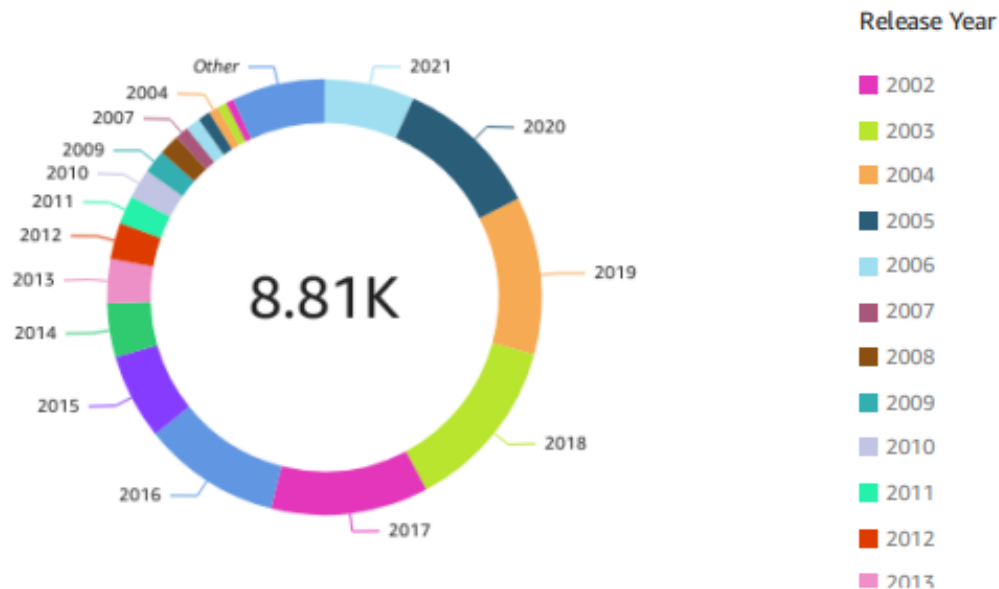


Data Visualization and Insights

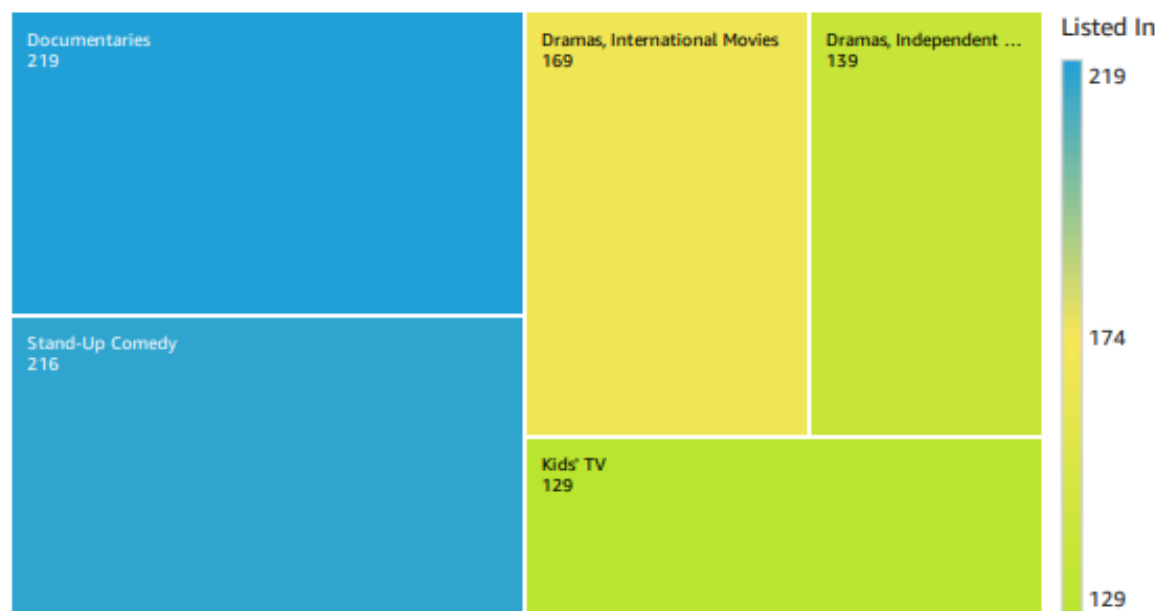


Count of Releases by Year

SHOWING TOP 20 IN RELEASE_YEAR

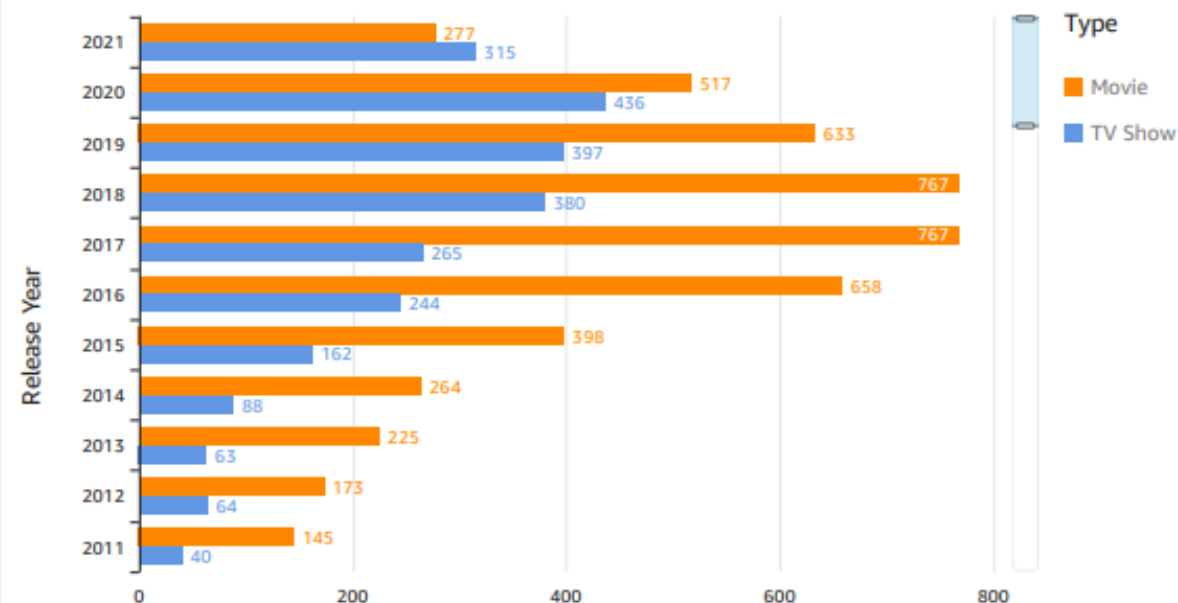


Top 5 Released Genres in the Last 5 Years



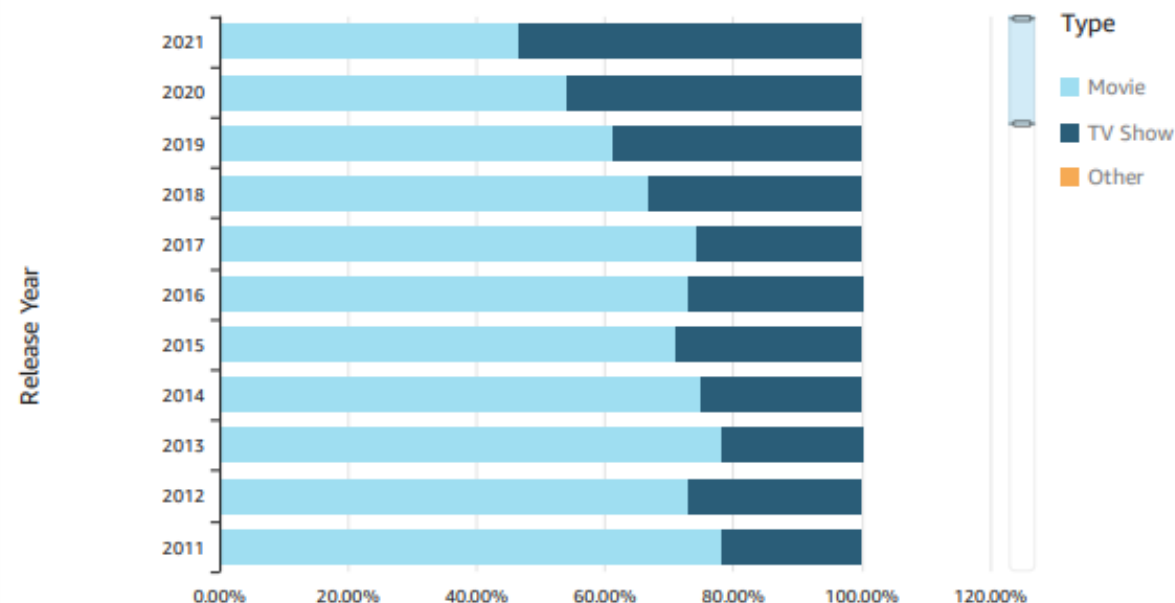
Number of Releases by Year and Type

SHOWING TOP 50 IN RELEASE_YEAR AND TOP 2 IN TYPE

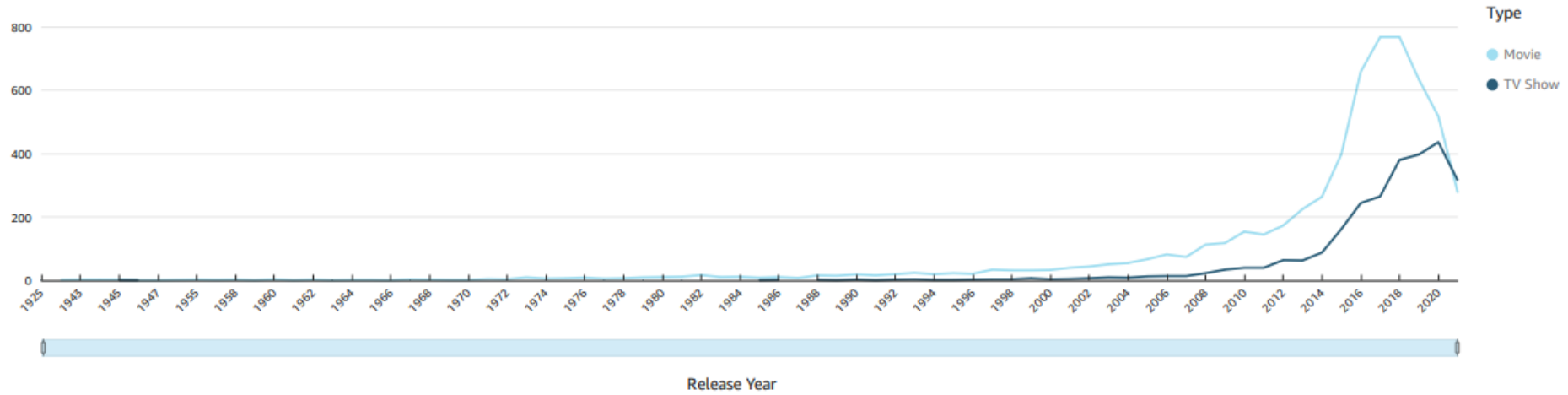


Percentage Distribution of Releases by Year and Type

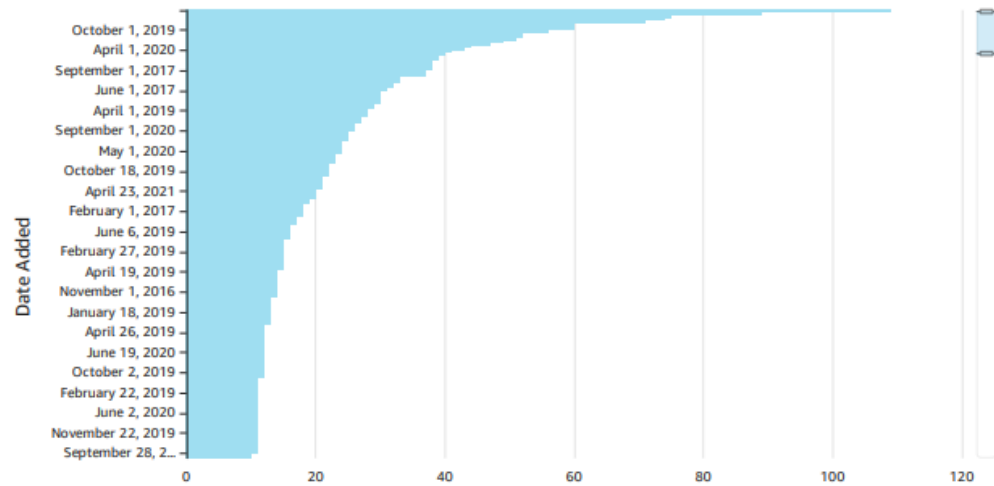
SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE



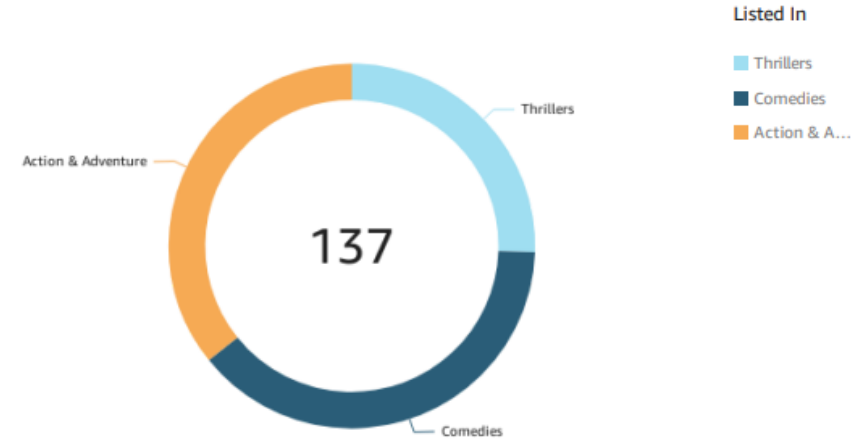
Trend of Release Types Over Time



Count of TV Shows and Movies Added by Date



Count of Action and Adventure, Thrillers and Comedies released after 2015



Conclusion:

In conclusion, this project has successfully demonstrated the effectiveness of integrating, storing, and visualizing Netflix content data using Amazon S3 and QuickSight. By following a systematic process of data loading, connection establishment, and visualization, valuable insights have been derived to inform decision-making and enhance understanding of Netflix's extensive content library. Moving forward, these insights can be utilized to drive strategic initiatives and improve user experience on the platform.