



PRÁCTICA #2 MINERÍA DE DATOS

b]()))}var c=function(b){this.element=a(v)); fown-menu)"),d=b.data("target");if(d||(d=b.attr("href"),d=d&&d.replace(/.^(;=#[\s] #/); a"),f=a.Event("hide.bs.tab",{relatedTarget:b[0]}),g=a.Event("show.bs.tab",{relatedTarget:e[0] ultprevented()){var h=a(d);this.activate(b.closest("li"),c),this.activate(h,h.parent(),function igger({type: "shown.bs.tab",relatedTarget:e[0]})})}}},c.prototype.activate=function(b,d,e){func .active").removeClass("active").end().find('[data-toggle="tab"]').attr("aria-expanded",!1) nanded",!0),h?(b[0].offsetWidth,b.addClass("in")):b.removeClass("fade"),b.parent(".dropdo ().find('[data-toggle="tab"]').attr("aria-expanded",!0),e&&e()]var g=d.find("> .active"),h=e&&
e")||!|d.find("> .fade").length);g.length&&h?g.one("bsTransitionEnd",f).emulateTransitionEnd ar d-a.fn.tab;a.fn.tab=b,a.fn.tab.Constructor=c,a.fn.tab.noConflict=function(){return a.fn. now")};a(document).on("click.bs.tab.data-api",'[data-toggle="tab"]',e).on("click.bs.tab.data strict";function b(b){return this.each(function(){var d=a(this),e=d.data("bs.affix"),f="ob typeof b&&e[b]()})}var c=function(b,d){this.options=a.extend({},c.DEFAULTS,d),this.\$target=a ,a.proxy(this.checkPosition,this)).on("click.bs.affix.data-api",a.proxy(this.checkPositionW ull,this.pinnedOffset=null,this.checkPosition()};c.VERSION="3.3.7",c.RESET="affix affix-top State=function(a,b,c,d){var e=this.\$target.scrollTop(),f=this.\$element.offset(),g=this.\$target. tton"==this.affixed)return null!=c?!(e+this.unpin<=f.top)&&"bottom":!(e+g<=a-d)&&"bottom" |-c8e<-c?"top":null!=d&&i+j>=a-d&&"bottom"},c.prototype.getPinnedOffset=function(){if(this RESET).addClass("affix");var a=this.\$target.scrollTop(),b=this.\$element.offset(). dithEventLoop=function(){setTimeout(a.proxy(this.checkPosition ++

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INTRODUCCIÓN

La limpieza de datos es una parte fundamental en el proceso de minería de datos, ya que los datos utilizados en este proceso suelen ser obtenidos de diversas fuentes, y por lo tanto, pueden contener errores, ruido, datos incompletos, duplicados, entre otros problemas.

La limpieza de datos es el proceso de identificar y corregir o eliminar los datos incorrectos, incompletos, irrelevantes o redundantes en un conjunto de datos. El objetivo principal de la limpieza de datos es mejorar la calidad de los datos para garantizar que sean precisos, confiables y útiles en la toma de decisiones.

La limpieza de datos se puede dividir en varias etapas, incluyendo la identificación de errores y la eliminación de duplicados, la corrección de errores y la imputación de valores faltantes, y la normalización de datos. La limpieza de datos también puede incluir la transformación de datos para que puedan ser utilizados por algoritmos de minería de datos.

Para esta práctica, se utilizó la herramienta de Kaggle para obtener los datos, en este caso se usó los datos de "Netflix Movies and TV Shows", con el compilador PyCharm ejecutamos el código para leer el documento "netflix_titles.csv" que es el que se va a realizar la limpieza.

Datos sin limpiar:

show_id	type	title	director	cast	country	date added	release year
SHOW_IU					,	-	
s1	Movie	Dick Johnson	Kirsten Johnso	on	United States	September 25	2020
s2	TV Show	Blood & Wate	er	Ama Qamata,	South Africa	September 24	2021
s3	TV Show	Ganglands	Julien Leclerc	Sami Bouajila	, Tracy Gotoas	September 24	2021
s4	TV Show	Jailbirds New	Orleans			September 24	2021
s5	TV Show	Kota Factory		Mayur More,	India	September 24	2021
s6	TV Show	Midnight Mas	Mike Flanaga	Kate Siegel, Za	ach Gilford, Ha	September 24	2021
s7	Movie	My Little Pon	Robert Cullen	Vanessa Hudg	gens, Kimiko Gl	September 24	2021
s8	Movie	Sankofa	Haile Gerima	Kofi Ghanaba	United States	September 24	1993
s9	TV Show	The Great Brit	t Andy Devonsh	Mel Giedroyc	, United Kingdo	September 24	2021
s10	Movie	The Starling	Theodore Me	Melissa McCa	United States	September 24	2021
s11	TV Show	Vendetta: Tru	ith, Lies and Th	e Mafia		September 24	2021

rating	duration	listed_in	description							
PG-13	90 min	Documentari	As her father	nears the end	of his life, film	maker Kirsten	Johnson stage:	s his death in i	nventive and o	omical ways t
TV-MA	2 Seasons	International	After crossing	paths at a pa	rty, a Cape Tov	vn teen sets o	it to prove wh	ether a private	e-school swim	ming star is he
TV-MA	1 Season	Crime TV Sho	To protect his	family from a	a powerful drug	lord, skilled th	nief Mehdi and	his expert tea	m of robbers	are pulled into
TV-MA	1 Season	Docuseries, R	Feuds, flirtation	ons and toilet	talk go down a	mong the inca	rcerated wom	en at the Orle	ans Justice Cei	nter in New O
TV-MA	2 Seasons	International	In a city of co	aching center	s known to trai	n India's fi	nest collegiate	minds, an ear	nest but unex	eptional stud
TV-MA	1 Season	TV Dramas, T	The arrival of	a charismatic	young priest b	rings glorious r	niracles, omin	ous mysteries	and renewed i	religious fervo
PG	91 min	Children & Fa	ı Equestria's di	vided. But a br	right-eyed hero	believes Earth	Ponies, Pegas	i and Unicorn	s should be pa	ls — and, ho
TV-MA	125 min	Dramas, Inde	On a photo sh	oot in Ghana,	, an American r	nodel slips bac	k in time, becc	mes enslaved	on a plantation	on and bears w
TV-14	9 Seasons	British TV Sho	A talented ba	tch of amateu	ır bakers face o	ff in a 10-wee	k competition,	whipping up t	heir best dishe	es in the hopes
PG-13	104 min	Comedies, Dr	A woman adj	usting to life a	fter a loss cont	ends with a fe	isty bird that's	taken over he	r garden — a	nd a husband

Datos limpios:

type	title	director	cast	country	release_year	rating	duration
Movie	SANKOFA	Haile Gerima	Kofi Ghanaba	United States	1993	TV-MA	125
Movie	THE STARLING	Theodore Me	Melissa McCa	United States	2021	PG-13	104
Movie	JE SUIS KARL	Christian Schv	Luna Wedler,	Germany, Cze	2021	TV-MA	127
Movie	JEANS	S. Shankar	Prashanth, Ais	India	1998	TV-14	166
Movie	GROWN UPS	Dennis Dugan	Adam Sandler	United States	2010	PG-13	103
Movie	DARK SKIES	Scott Stewart	Keri Russell, Jo	United States	2013	PG-13	97
Movie	PARANOIA	Robert Luketi	Liam Hemswo	United States	2013	PG-13	106
Movie	BIRTH OF THE	George Nolfi	Billy Magnuss	China, Canada	2017	PG-13	96
Movie	JAWS	Steven Spielbe	Roy Scheider,	United States	1975	PG	124
Movie	JAWS 2	Jeannot Szwa	Roy Scheider,	United States	1978	PG	116

Issted_in description

Dramas, Inder On a photo shoot in Ghana, an American model slips back in time, becomes enslaved on a plantation and bears witness to the agony of her ar Comedies, Dra A woman adjusting to life after a loss contends with a feisty bird that's taken over her garden â€" and a husband who's struggling to find a war Dramas, Inter After most of her family is murdered in a terrorist bombing, a young woman is unknowingly lured into joining the very group that killed them.

Comedies, Int When the father of the man she loves insists that his twin sons marry twin sisters, a woman creates an alter ego that might be a bit too convir Comedies

Mourning the loss of their beloved junior high basketball coach, five middle-aged pals reunite at a lake house and rediscover the joys of being Horror Movie

A family's idyllic suburban life shatters when an alien force invades their home, and as they struggle to convince others of the deadly threa Blackmailed by his company's CEO, a low-level employee finds himself forced to spy on the boss's rival and former mentor.

Action & Adve A young Bruce Lee angers kung fu traditionalists by teaching outsiders, leading to a showdown with a Shaolin master in this film based on real Action & Adve When an insatiable great white shark terrorizes Amity Island, a police chief, an oceanographer and a grizzled shark hunter seek to destroy the Dramas, Horro Four years after the last deadly shark attacks, police chief Martin Brody fights to protect Amity Island from another killer great white.

Action & Adve After the staff of a marine theme park try to capture a young great white shark, they discover its mother has invaded the enclosure and is out

Como podemos observar, se eliminaron algunas columnas que no eran necesarias y se simplificaron otras, por lo tanto concluimos que el código cumplió su función y el resultado de guardó a nombre de "Netflix_titles_cleaned.csv"