

Al Ready: How do you avoid the pitfalls of Al?

Chris Willis: Chief Design Officer

Florencia Silveira: Data Scientist

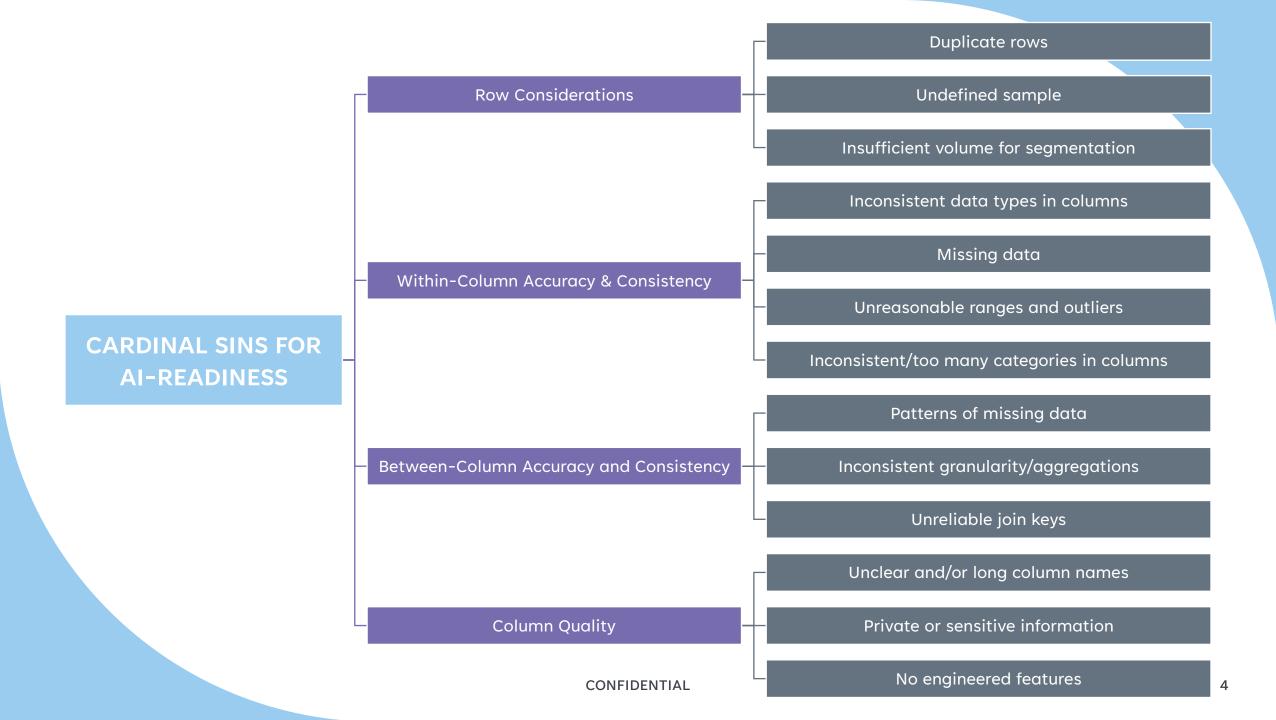
13 CARDINAL SINS OF AI-READY DATA

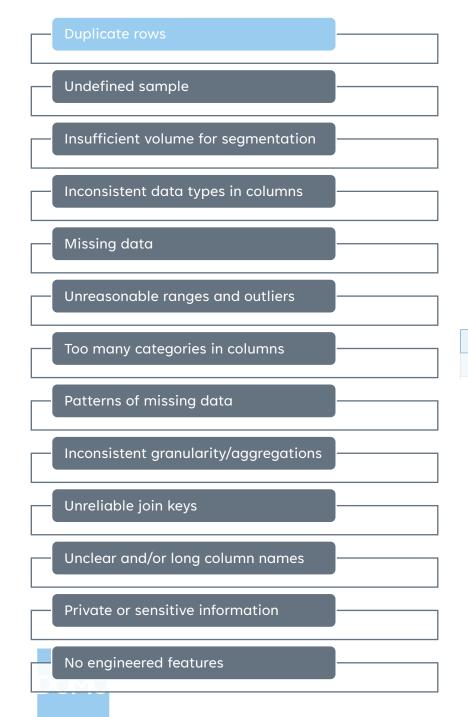


Generative:
LLMs +
Automated Data
Insights

Descriptive: Analytics and Reporting Predictive:
Prediction and
Machine
Learning

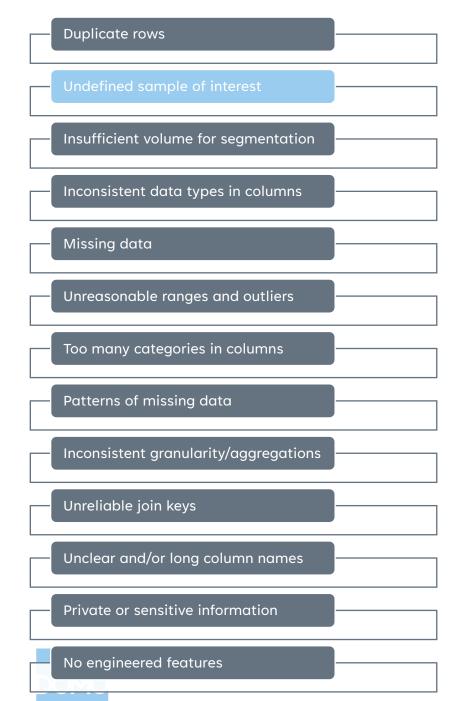
ARTIFICIAL INTELLIGENCE





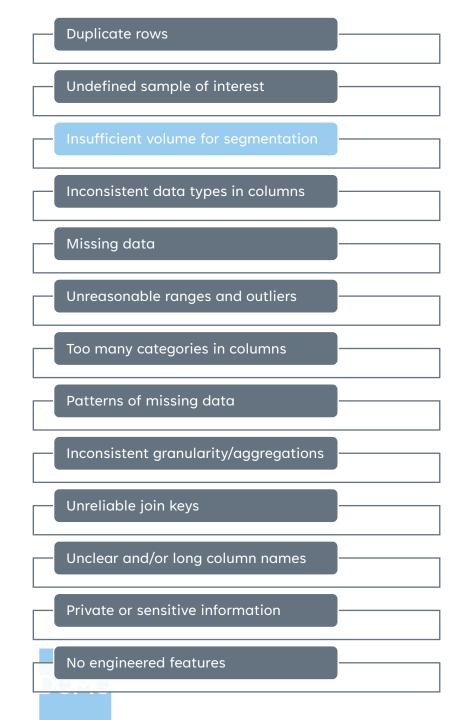


100,000,972	0	0	43
100,000,972	0	0	43



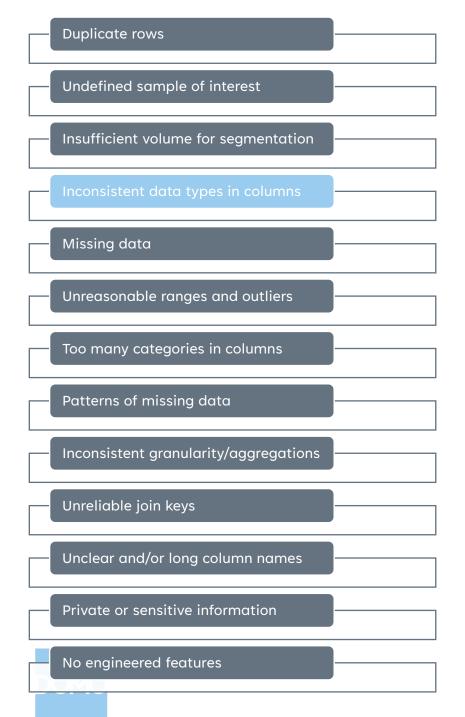


C_000504	Yes
C_000507	Yes
C_000512	Yes
C_000274	Test
C_000360	Test
C_000408	Test
C_000509	Test
C_000001	No
C_000002	No
C_000004	No



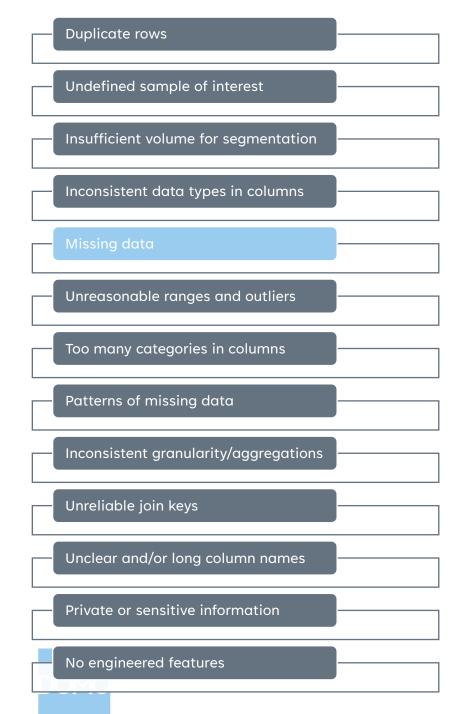


Language Binary (i)	:	Genre 1	:	rating	:	Count rating	:
abc	.0.	abc		abc	∴ ▼	123	COUNT
						المحالجة ألبارا	والمامات
2 unique values (approx)	+ filter	25 unique values (approx)	+ filter	8 unique values (approx)	+ filte	Loading distribution	+ filte
Non-English		Adventure		PG-13			9
English		Romance		R			164
English		Comedy		PG			80
Non-English		Comedy		R			53
English		Horror		R			439
English		Drama		TV14			37
English		Mystery & thriller		R			366
English		Action		PG-13			200
Non-English		Drama		R			112
English		Comedy		PG-13			416
English		Comedy		R			757
English		Drama		PG-13			290
English		Documentary		PG-13			110
English		Musical		PG-13			21
English		Drama		R			658
Non-English		Horror		R			34
English		Adventure		PG-13			56
English		Fantasy		R			17
Non-English		Drama		PG-13			43
English		Romance		PG-13			173
English		Drama		PG			91
English		Western		R			28
English		Kids & family		PG			298



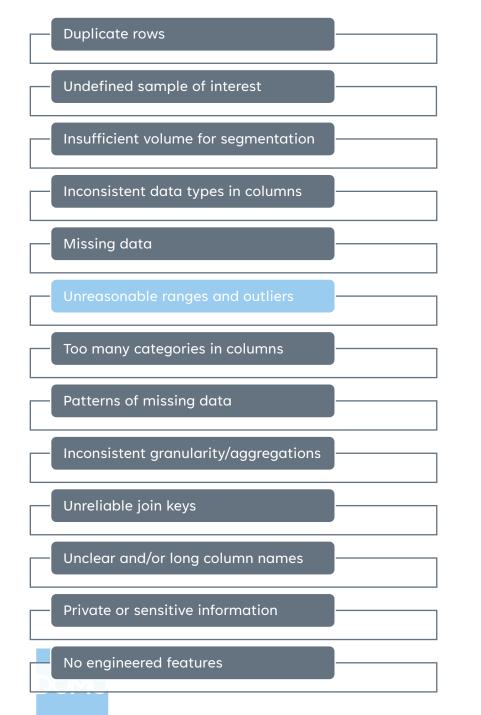




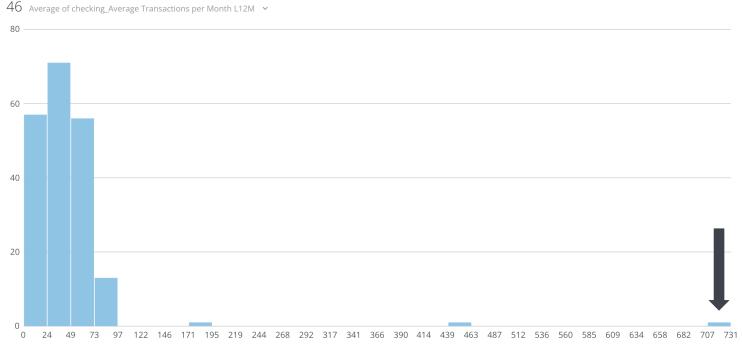


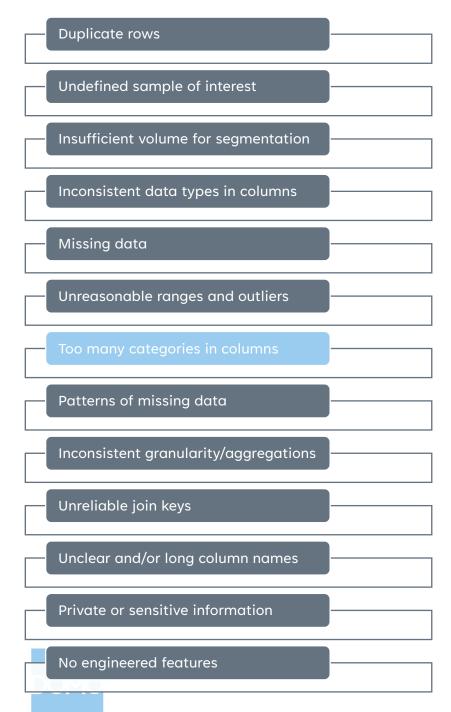


Jun 30, 2021	32,760.31
Jul 31, 2021	33,414.70
Aug 31, 2021	34,982.10
Sep 30, 2021	
Oct 31, 2021	33,459.53
Nov 30, 2021	39,481.14
Dec 31, 2021	48,903.08
Jan 31, 2022	26,017.89
Feb 28, 2022	28,640.98
Mar 31, 2022	34,927.65
Apr 30, 2022	33,099.39
May 31, 2022	35,886.55
Jun 30, 2022	33,458.32
Aug 31, 2022	35,778.94
Sep 30, 2022	32,236.03
Oct 31, 2022	34,224.49



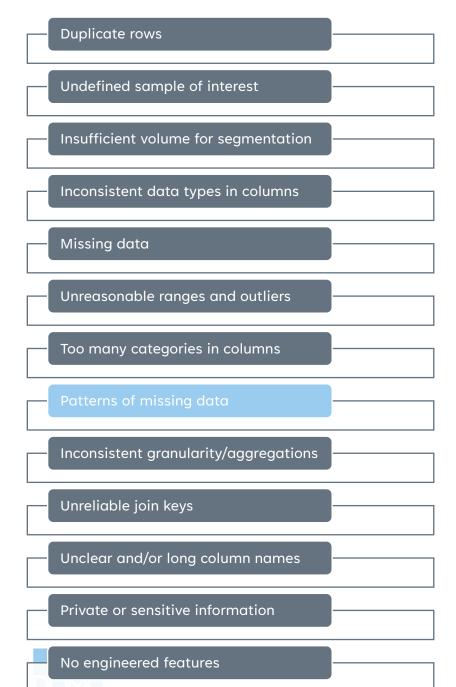






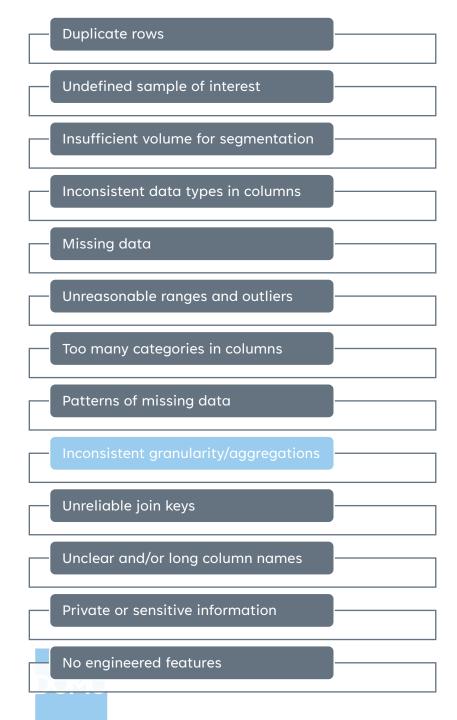
occupation	Count occupation	
abc	123	COUNT
Laborers		127,979
Sales staff		74,551
Core staff		65,179
Managers		50,164
Drivers		42,912
High skill tech staff		26,458
Accountants		22,715
Medicine staff		19,737
Security staff		15,480
Cooking staff		14,176
Cleaning staff		10,952
Private service staff		6,233
Low-skill Laborers		4,906
Secretaries		3,170
Waiters/barmen staff		3,147
Realty agents		1,700
HR staff		1,254
IT staff		1,079

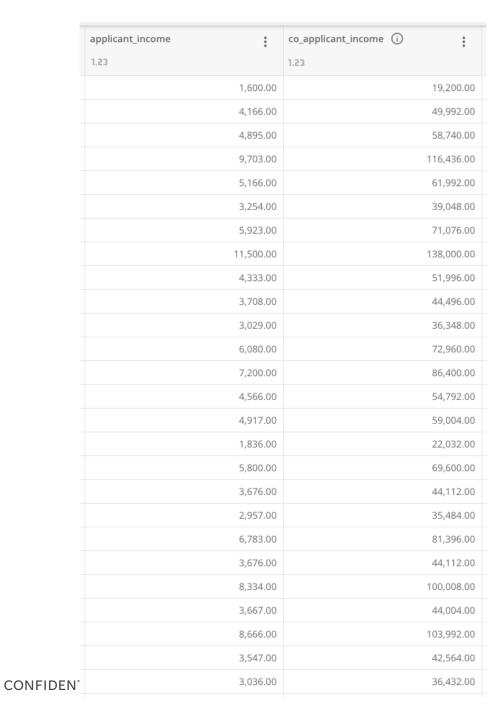






	DATE :	Metro Area	Units (i)
<u>:√:</u>	₩ 🔻	abc	123
1	Aug 1, 2017	Portland	
2	Aug 1, 2018	Portland	
3	Aug 1, 2019	Portland	
4	Aug 1, 2020	Portland	
5	Aug 1, 2021	Portland	
6	Aug 1, 2022	Portland	
7	Apr 1, 2017	Denver	
8	Apr 1, 2018	Denver	
9	Apr 1, 2019	Denver	
10	Apr 1, 2020	Denver	
11	Apr 1, 2021	Denver	
12	Apr 1, 2022	Denver	
13	Apr 1, 2023	Denver	



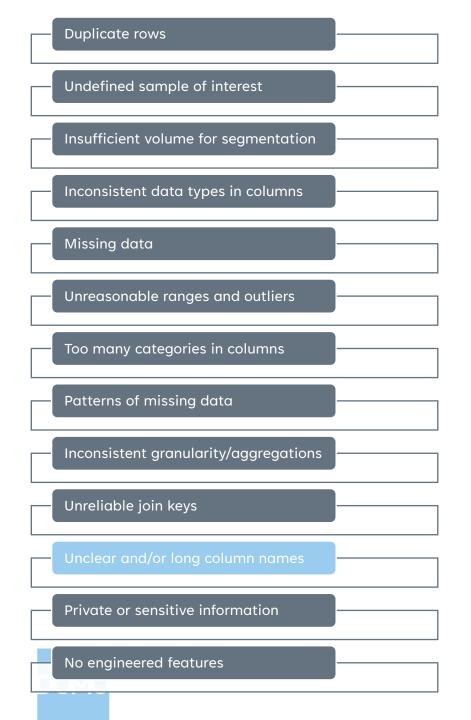




Duplicate rows
Undefined sample of interest
Insufficient volume for segmentation
Inconsistent data types in columns
Missing data
Unreasonable ranges and outliers
Too many categories in columns
Patterns of missing data
Inconsistent granularity/aggregations
Unreliable join keys
Unclear and/or long column names
Private or sensitive information
No engineered features

SKU_Master	SKU (i)
abc	abc
987654321098765	1234567890123
390123456789012	123456789012345
76543210987654	2134567890456
55432109876543	234567890123456
54321098765432	321098765432109
57890123456789	3214567890189
43210987654321	321654987032
56789012345678	345678901234567
45678901234567	432198765432
21098765432109	456789012345678
34567890123456	543210987654321
23456789012345	567890123456789
09856214789302	598742136985
7894562301478	654321098765432
6789432105876	6789432105876
3214567890189	678945612387
2134567890456	765432109876543
01234567890123	7894562301478
00987654321098	854762301987
00854762301987	876543210987654
0678945612387	890123456789012
0598742136985	9856214789302
00432198765432	987654321098
00321654987032	987654321098765







4	Labor force participation rate, female (% of female population ages 15+) (national estimate)	
5	Proportion of seats held by women in national parliaments (%)	
6	Women Business and the Law Index Score (scale 1-100)	
7	Adolescents out of school, female (% of female lower secondary school age)	TR 14A
8	Children out of school, female (% of female primary school age)	11/_1-7/
9	School enrollment, secondary, female (% gross)	TR_14B
10	GDP per capita (current US\$)	TR_14C
11	Adolescent fertility rate (births per 1,000 women ages 15-19)	
12	Birth rate, crude (per 1,000 people)	ITEM_DEPT49
13	Births attended by skilled health staff (% of total)	DEPT_LEV1
14	Current health expenditure (% of GDP)	_
15	Current health expenditure per capita (current US\$)	DEPT_LEV2
16	Fertility rate, total (births per woman)	TOTAL
17	Hospital beds (per 1,000 people)	
18	Low-birthweight babies (% of births)	
19	Mortality rate, infant (per 1,000 live births)	
20	Mortality rate, neonatal (per 1,000 live births)	





Undefined sample of interest

Insufficient volume for segmentation

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Unreasonable ranges and outliers

Too many categories in columns

Patterns of missing data

Inconsistent granularity/aggregations

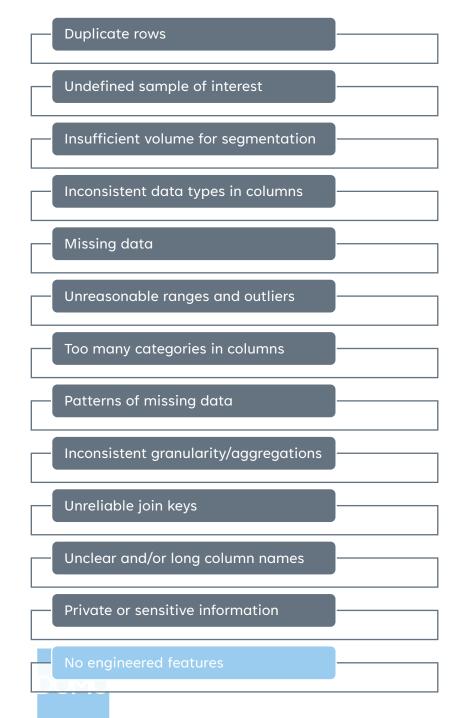
Unreliable join keys

Unclear and/or long column names

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No engineered features

Addressess Names **Email Addresses** Telephone Numbers Dates of Birth Credit Card Numbers Social Security Numbers







Start Date	Termination Date
Sep 12, 2011	Apr 29, 2022
Oct 13, 2019	Mar 28, 2023
Apr 24, 2005	
Jul 26, 2020	Jul 26, 2020
May 4, 2005	May 4, 2005
Nov 23, 2008	
Jun 6, 2000	Jun 15, 2023
Jul 24, 2003	
Dec 11, 2016	Jun 18, 2023
May 21, 2006	Sep 1, 2023
Sep 3, 2014	Jun 20, 2022
Aug 30, 2014	Feb 6, 2022
Mar 4, 2001	Dec 26, 2023
Jul 1, 2009	