

Feature Na	Feature De	Justification	Mean	Median	Standard Deviation	Feature Na	Mean (Bre	Median (Br	Standard Deviation (Br	Feature Na	Mean (Not	Median (Nc	Standard Deviation (Not Breached)
employees	number of e	With more e	18.451	2.8	67.897	employees	73.282	27.826	98.072	employees	17.515	2.7	66.883
SIC4	The industr	Different in	4835.509	4923	1896.967	SIC4	5502.377	5912	1543.896	SIC4	4823.832	4922	1900.515
Breach	Whether a	This is our	0.019	0	0.138	Breach	1	1	1	Breach	0	0	0
BreachType	What type	Outcome v	n/a	n/a	n/a	BreachType	n/a	n/a	n/a	BreachType	n/a	n/a	n/a
stockholder	Accounting	Companies	2951.532	486.926	10526.64	stockholder	14345.66	2948.915	28755.34	stockholder	2751.246	474.311	9796.411
retained ea	Accounting	A company	1649.594	152.928	9439.79	retained ea	8620.469	2034.9	20691.83	retained ea	1526.383	147.601	9070.765
netincome	Accounting	The higher	367.432	40.057	2301.409	netincome	1685.674	468.583	4448.66	netincome	344.245	38.975	2238.767
cash	Accounting	The more c	670.182	74.242	3340.63	cash	3047.308	732.612	6546.494	cash	628.279	72.32	3240.88
liabilities	Accounting	A company	12040.77	860.159	84672.48	liabilities	93128.47	6239.171	316182.8	liabilities	10611.43	835.345	73647.63
TOT_C	Total firm s	Companies	1.875	2	1.783	TOT_C	3.1625	2	2.725	TOT_C	1.845	2	1.744
TOT_S	Total firm s	Companies	1.566	1	2.594	TOT_S	3.725	2	4.376	TOT_S	1.516	1	2.516
tobinq	Accounting	If a compar	1.589	1.12	2.913	tobinq	1.436	1.072	1.44	tobinq	1.591	1.121	2.933
newshits	The numbe	When a cor	603.02	142	2678.146	newshits	3270.299	663.5	7187.44	newshits	555.195	140	2499.839
IsHealthCa	Is company	Handles hig	0.012	0	0.11	IsHealthCa	0.013	0	0.111	IsHealthCa	0.012	0	0.11
IsRetail	Is company	Deals with	0.002	0	0.044	IsRetail	0.008	0	0.091	IsRetail	0.002	0	0.043
IsIT	Is company	IT industry	0	0	0	IsIT	0	0	0	IsIT	0	0	0
IsCommuni	Is company	Handles se	0.025	0	0.155	IsCommuni	0.05	0	0.218	IsCommuni	0.024	0	0.153
IsFinancial	Is company	Due to the	0.228	0	0.419	IsFinancial	0.246	0	0.431	IsFinancial	0.227	0	0.419
IsEntertain	Is company	Companies	0.008	0	0.09	IsEntertain	0	0	0	IsEntertain	0.008	0	0.091
ROE	Return on E	A lower RC	-0.013	0.102	4.388	ROE	0.154	0.144	1.632	ROE	-0.016	0.101	4.421
Netincome	Ratio of cor	Higher valu	0.027	0.063	1.598	Netincome	0.131	0.074	0.26	Netincome	0.026	0.062	1.612
TOT_CtoT	Ratio of cor	A higher ra	1.113	1	1.117	TOT_CtoT	1.256	1	1.273	TOT_CtoT	1.109	1	1.112
IsGoverme	Is company	Government	0	0	0	IsGoverme	0	0	0	IsGoverme	0	0	0
IsEducator	Is company	Educational	0.004	0	0.06	IsEducator	0	0	0	IsEducator	0.004	0	0.06
IsManufact	Is company	Breach att	0.36	0	0.48	IsManufact	0.192	0	0.394	IsManufact	0.363	0	0.481
BreachOcc	Rate of bre	Companies	0.019	0	0.068	BreachOcc	0.267	0.167	0.168	BreachOcc	0.014	0	0.054
TotalAssets	Company's	Larger asse	14544.97	1389.665	91124.32	TotalAssets	93144.24	7529.198	318160.6	TotalAssets	12991.63	1349.893	79692.52
ROA	Total return	Low ROA c	0.001	0.037	0.906	ROA	0.047	0.047	0.095	ROA	9.80E-05	0.036	0.914
AssetTurnc	Company's	A high asse	0.001	0.037	0.906	AssetTurnc	0.047	0.047	0.095	AssetTurnc	9.80E-05	0.036	0.914
EmployeeT	Employee i	A lack of in	0.216	0.075	1.113	EmployeeT	0.137	0.077	0.245	EmployeeT	0.218	0.075	1.122
CapExToT	How much	Lower inve	0.033	0.014	0.057	CapExToT	0.243	0.119	0.437	CapExToT	0.033	0.014	0.057
CashToLial	Cash to lial	Lower ratio	0.433	0.105	1.485	CashToLial	0.243	0.119	0.437	CashToLial	0.436	0.105	1.497
CashFlowM	Conversion	Lower ratio	1.912	0.544	89.655	CashFlowM	2.801	0.657	20.67	CashFlowM	1.896	0.541	90.4
Stockholde	Ratio of cor	Lower ratio	1.888	0.765	13.611	Stockholde	0.956	0.609	1.476	Stockholde	1.905	0.771	13.729
BreachtoC	Breach to C	High ratio in	0.003	0	0.062	BreachtoC	0.022	0.002	0.058	BreachtoC	0.003	0	0.062
BreachTotc	Breach to l	High ratio in	0.021	0	0.126	BreachTotc	0.274	0.161	0.372	BreachTotc	0.017	0	0.111
tobinqToEn	IT spending	Lower ratio	19.351	0.323	454.376	tobinqToEn	0.193	0.033	0.556	tobinqToEn	19.68	0.333	458.263
EmployeeC	Employee c	A high grov	4.687	-0.043	211.26	EmployeeC	-0.238	-0.041	0.581	EmployeeC	4.781	-0.043	213.27
NewsHitsIn	News hit ra	An increase	1.857	0	33.121	NewsHitsIn	0.278	0	2.22	NewsHitsIn	1.89	0	33.458
CapExToT	CapEx to T	Reveals ho	315.582	7.569	2612.75	CapExToT	2201.146	51.563	14461.15	CapExToT	282.53	7.378	1798.518

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Clients Total numb More clients may increase the interaction points of an attack, through client related vulnerabilities

Contractors Total numb With contractors often having access to company systems, there may be a risk if they're not properly trained

GlobalPres Total of inte By operating in different regions, there may be different security measures, regulations, and an increase in potential attackers

SecurityBud Annual bud Size of a company's security budget may indicate how robust and effective their cybersecurity measures are. Often, a higher security budget indicates more resources and stronger cybersecurity practices within the company as it's invested in training, incident response, etc.

SecurityScore Organizational A company's overall risk and cybersecurity posture score may indicate its strengths and weaknesses, a lower score making it more vulnerable to attacks

SecurityTraining Frequency Higher frequency of training can reduce human error, which often leads to the cause of the breach

EmployeeSecurity Percentage of employees who completed security training

ThirdParty\ Total number of third party vendors

ThirdParty\ Risk level of third party vendors

Cybersecurity Maturity number of overall cyber practices

MFAUsage Total of employee accounts using Multi-Factor Authentication

ITStaff Total of IT Staff, ratio to total employees

IncidentResponse Time taken to response to security incidents

PhishingTest Percentage of positive employee performance during phishing testing

PatchFrequency Frequency at which security patches are applied to system(s)

DataSensitivity Sensitivity score for type of data the company handles

Cybersecurity Percentage of systems or applications within the company that are protected by security application or infrastructure

MarketShare Percentage of market share within industry