

Unicorn Companies Analysis: Industry Trends & Investment Insights

Did you know that the average return from investing in stocks is [10% per year](#) (not accounting for inflation)? But who wants to be average?!

You have been asked to support an investment firm by analyzing trends in high-growth companies. They are interested in understanding which industries are producing the highest valuations and the rate at which new high-value companies are emerging. Providing them with this information gives them a competitive insight as to industry trends and how they should structure their portfolio looking forward.

You have been given access to their `unicorns` database, which contains the following tables:

dates

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>date_joined</code>	The date that the company became a unicorn.
<code>year_founded</code>	The year that the company was founded.

funding

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>valuation</code>	Company value in US dollars.
<code>funding</code>	The amount of funding raised in US dollars.
<code>select_investors</code>	A list of key investors in the company.

industries

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>industry</code>	The industry that the company operates in.

companies

Column	Description
<code>company_id</code>	A unique ID for the company.
<code>company</code>	The name of the company.
<code>city</code>	The city where the company is headquartered.
<code>country</code>	The country where the company is headquartered.
<code>continent</code>	The continent where the company is headquartered.

Data Validation and Initial Exploration

index	...	↑↓	table_name	...	↑↓	column_name	...	↑↓	data_type	...	↑↓
0			companies			company_id			integer		
1			companies			company			character varying		
2			companies			city			character varying		
3			companies			country			character varying		
4			companies			continent			character varying		
5			dates			company_id			integer		
6			dates			date_joined			date		
7			dates			year_founded			integer		
8			funding			company_id			integer		
9			funding			valuation			bigint		
10			funding			funding			bigint		
11			funding			select_investors			character varying		
12			industries			company_id			integer		
13			industries			industry			character varying		

Rows: 14 [Expand](#)

...	↑↓	c...	...	↑↓	date_joined	...	↑↓	year...	...	↑↓
0				189	2017-06-24T00:00:00.000			1919		
1				848	2021-06-01T00:00:00.000			2019		
2				556	2022-02-15T00:00:00.000			2011		
3				999	2021-11-17T00:00:00.000			2020		
4				396	2021-10-21T00:00:00.000			2021		

Rows: 5 [Expand](#)

...	↑↓	c...	...	↑↓	v...	...	↑↓	f...	...	↑↓	select_investors	...	↑↓
0				189	4000000000			0			EQT Partners		
1				848	1000000000			100000000			Dragonfly Captial, Qiming Venture Partners, ...		
2				556	2000000000			100000000			Blackstone, Bessemer Venture Partners		
3				999	1000000000			100000000			Goldman Sachs Asset Management, 3L		
4				396	2000000000			100000000			Insight Partners, Softbank Group, Connect Ve...		

Rows: 5 [Expand](#)

...	↑↓	c...	...	↑↓	industry	...	↑↓
0				189	Health		
1				848	Fintech		
2				556	Internet software & services		
3				999	Internet software & services		
4				396	Fintech		

Rows: 5 [Expand](#)

...	↑↓	c...	...	↑↓	company	...	↑↓	city	...	↑↓	country	...	↑↓	contin...	...	↑↓	
0		189			Otto Bock HealthCare			Duderstadt			Germany			Europe			
1		848			Matrixport						Singapore			Asia			
2		556			Cloudinary			Santa Clara			United States			North America			
3		999			PLACE			Bellingham			United States			North America			
4		396			candy.com			New York			United States			North America			
Rows: 5																	↗ Expand

...	↑↓	min_date_joined	...	↑↓	max_date_joined	...	↑↓	min_year_f...	...	↑↓	max_year_f...	...	↑↓	
0		2007-07-02T00:00:00.000			2022-04-05T00:00:00.000			1919			2021			
Rows: 1														↗ Expand

Your query ran successfully but returned no results.

...	↑↓	m...	...	↑↓	max...	...	↑↓	avg_value	...	↑↓	...	↑↓	ma...	...	↑↓	avg_fund	...	↑↓	
0		1000000000			180000000000			3455307262.5698323			0		14000000000			551042830.5400373			
Rows: 1																			↗ Expand

Your query ran successfully but returned no results.

Your query ran successfully but returned no results.

Your query ran successfully but returned no results.

Industry Concentration and High-Growth Sectors

...	↑↓	industry	...	↑↓	num...	...	↑↓	
0		Fintech			173			
1		Internet software & services			152			
2		E-commerce & direct-to-consumer			75			
3		Artificial intelligence			53			
4		Health			52			
Rows: 5								↗ Expand



...	↑↓	industry	...	↑↓	...	↑↓	num...	...	↑↓	avg_v...	...	↑↓	
	0	Artificial intelligence			2019		14			4500000000			
	1	Auto & transportation			2019		6			4166666666.67			
	2	Consumer & retail			2019		3			3666666666.67			
	3	Cybersecurity			2019		4			2250000000			
	4	Data management & analytics			2019		4			11500000000			
	5	E-commerce & direct-to-consumer			2019		12			2583333333.33			
	6	Edtech			2019		1			1000000000			
	7	Fintech			2019		20			6800000000			
	8	Health			2019		3			3333333333.33			
	9	Internet software & services			2019		13			4230769230.77			
	10	Mobile & telecommunications			2019		4			2000000000			
Rows: 43													Expand

Top Performing Industries and Valuation Trends (CTE-Based Analysis)

...	↑↓	industry	...	↑↓	num...	...	↑↓	average_valuation_billions	...	↑↓	
0		Fintech			2021			138			2.75
1		Internet software & services			2021			119			2.15
2		E-commerce & direct-to-consumer			2021			47			2.47
3		Internet software & services			2020			20			4.35
4		E-commerce & direct-to-consumer			2020			16			4
5		Fintech			2020			15			4.33
6		Fintech			2019			20			6.8
7		Internet software & services			2019			13			4.23
8		E-commerce & direct-to-consumer			2019			12			2.58
Rows: 9											↗ Expand

Speed of Value Creation (Time to Unicorn)

...	↑↓	industry	...	↑↓	num...	...	↑↓	avg_years_to_unic...	...	↑↓	median_years_to_unico...	...	↑↓	
0		Auto & transportation			31			5.03			4			
1		Artificial intelligence			84			5.89			5			
2		Hardware			34			5.94			5			
3		Mobile & telecommunications			38			6.32			5			
4		E-commerce & direct-to-consumer			111			6.43			6			
5		Fintech			224			6.54			6			
6		Travel			14			6.57			5			
7		Cybersecurity			50			6.8			6			
8		Supply chain, logistics, & delivery			57			6.93			6			
9		Edtech			28			7.71			6			
10		Other			58			7.78			6.5			
11		Internet software & services			205			7.87			7			
12		Data management & analytics			41			8.07			8			
13		Consumer & retail			25			8.08			5			
14		Health			74			8.19			6			
Rows: 15														↗ Expand

Capital Efficiency Analysis

...	↑↓	industry	...	↑↓	num...	...	↑↓	avg_valuation_funding_ratio	...	↑↓	median_valuation_funding_ratio	...	↑↓
0		Internet software & services			203			28.3					
1		Other			56			8.98					
2		Mobile & telecommunications			37			8.92					
3		Fintech			222			8.72					
4		Hardware			34			7.59					
5		Consumer & retail			24			7.5				3.	
6		Data management & analytics			40			6.25				5.	
7		Artificial intelligence			84			6				4.	
8		Health			73			5.82					
9		E-commerce & direct-to-consumer			109			5.63					
10		Cybersecurity			50			5.58					
11		Edtech			28			5.39					
12		Auto & transportation			31			3.97					
13		Supply chain, logistics, & delivery			56			3.32					
14		Travel			14			2.93				2.	

Rows: 15 [Expand](#)

Year-over-Year Unicorn Growth Trends

...	↑↓	industry	...	↑↓	...	↑↓	num...	...	↑↓
0		Artificial intelligence			2019		14		
1		Artificial intelligence			2020		3		
2		Artificial intelligence			2021		36		
3		Auto & transportation			2019		6		
4		Auto & transportation			2020		5		
5		Auto & transportation			2021		4		
6		Consumer & retail			2019		3		
7		Consumer & retail			2020		1		
8		Consumer & retail			2021		7		
9		Cybersecurity			2019		4		
10		Cybersecurity			2020		7		

Rows: 43 [Expand](#)

...	↑↓	industry	...	↑↓	...	↑↓	num...	...	↑↓	prev_year_unic...	...	↑↓	yoy_growth_percent...	...	≡↓	
15		Hardware			2021		14			1			1300			
16		Supply chain, logistics, & delivery			2021		25			2			1150			
17		Artificial intelligence			2021		36			3			1100			
18		Fintech			2021		138			15			820			
19		Consumer & retail			2021		7			1			600			
20		Internet software & services			2021		119			20			495			
21		Health			2021		40			9			344.44			
22		Edtech			2020		4			1			300			
23		Cybersecurity			2021		27			7			285.71			
24		Data management & analytics			2021		21			6			250			
25		Edtech			2021		12			4			200			
Rows: 43																↗ Expand

...	↑↓	industry	...	↑↓	...	↑↓	num...	...	↑↓	
0		Artificial intelligence			2019		14			
1		Artificial intelligence			2020		3			
2		Artificial intelligence			2021		36			
3		Consumer & retail			2019		3			
4		Consumer & retail			2020		1			
5		Consumer & retail			2021		7			
6		Cybersecurity			2019		4			
7		Cybersecurity			2020		7			
8		Cybersecurity			2021		27			
9		Data management & analytics			2019		4			
10		Data management & analytics			2020		6			
Rows: 29										↗ Expand

Valuation Concentration and Industry Risk

...	↑↓	industry	...	↑↓	num...	...	↑↓	avg_v...	...	↑↓	median_val...	...	↑↓	
	0	Mobile & telecommunications			38			2.34			1.5			
	1	Cybersecurity			50			2.58			2			
	2	Health			74			2.68			2			
	3	Internet software & services			205			2.9			2			
	4	Hardware			34			2.91			2			
	5	Supply chain, logistics, & delivery			57			3.11			1			
	6	Auto & transportation			31			3.19			2			
	7	Travel			14			3.29			2			
	8	Data management & analytics			41			3.32			2			
	9	Edtech			28			3.57			2			
	10	E-commerce & direct-to-consumer			111			3.84			2			
	11	Fintech			224			3.94			2			
	12	Consumer & retail			25			4.24			2			
	13	Other			58			4.34			2			
	14	Artificial intelligence			84			4.49			2			
Rows: 15														 Expand

...	↑↓	industry	...	↑↓	top_10_percent_valuation_share	...	↑↓
	0	Other			65.48		
	1	Artificial intelligence			64.99		
	2	Consumer & retail			60.38		
	3	E-commerce & direct-to-consumer			55.63		
	4	Supply chain, logistics, & delivery			53.11		
	5	Fintech			50		
	6	Edtech			49		
	7	Data management & analytics			47.79		
	8	Travel			41.3		
	9	Internet software & services			38.99		
	10	Auto & transportation			38.38		
	11	Hardware			36.36		
	12	Health			33.33		
	13	Cybersecurity			31.78		
	14	Mobile & telecommunications			31.46		

Rows: 15

Expand

Valuation Stability and Market Volatility

...	↑↓	...	↑↓	num...	...	↑↓	avg_valuation_billions	...	↑↓	stddev_valuation_billions	...	↑↓	valuation_volatility_ratio	...	↑↓
	0		2019			104			4.39			6.12			1.39
	1		2020			108			3.72			2.99			0.8
	2		2021			520			2.29			2.44			1.07

Rows: 3

Expand

