

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 Capital, 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

