# ELEVATE LABS DATA ANALYST INTERNSHIP CAPSTONE PROJECT:

# STARTUP GROWTH ANALYSIS

WITH AN EMPHASIS ON ED-TECH AND HEALTH-TECH

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## Project Overview

In this project it will be focused on startup investments and growths. HealthTech and EdTech will be selected as example industries, and it will be looked after relationships between features like investment amount, number of investors, foundation year of the company, growth rate, industries and countries.

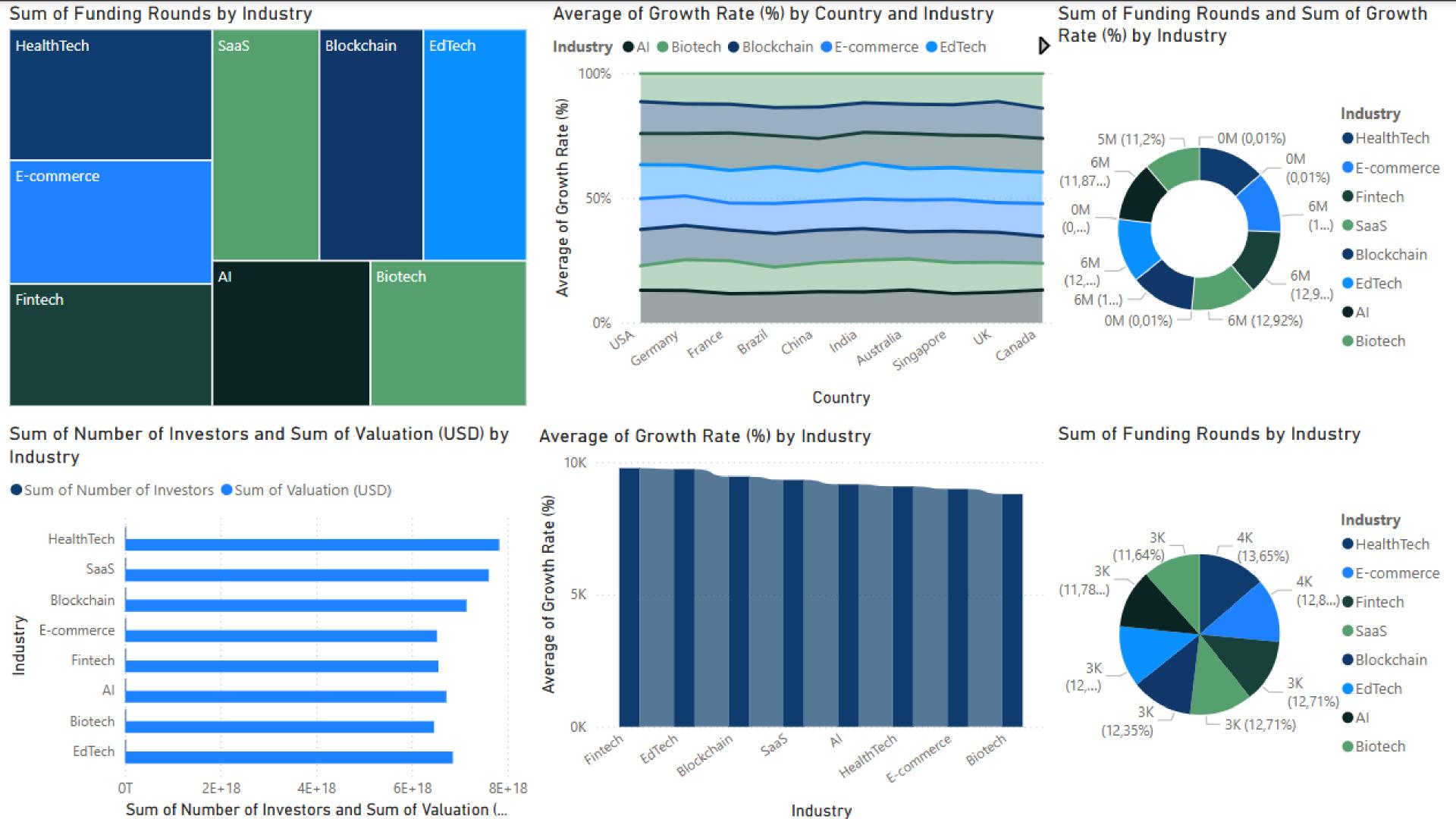
We will see different industries and countries and their correlations with growth and investments.

### AGENDA

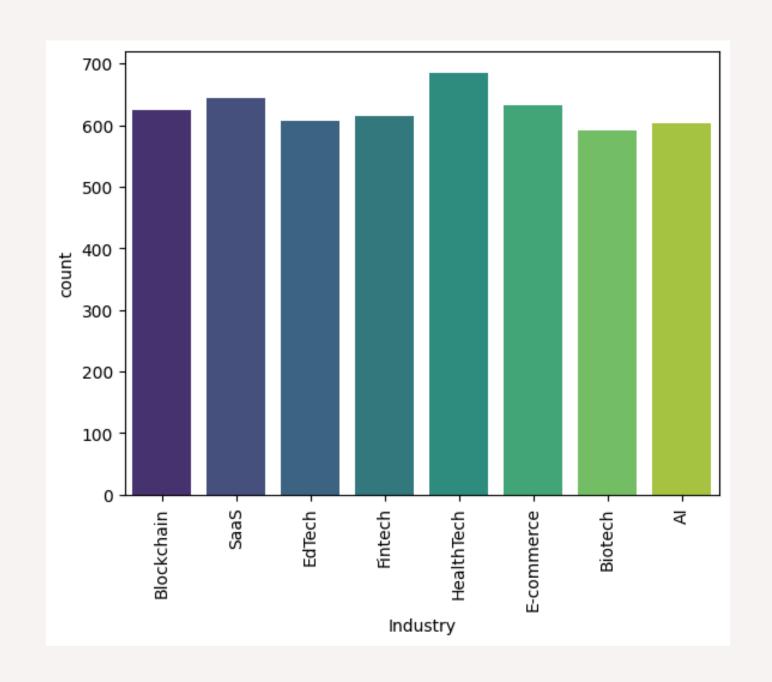
- 1. General analysis (EDA and Power BI Dashboard Creation)
- 2. Analysis of ED-TECH
- 3. ANALYSIS OF GERMANY with an emphasis on HEALTH-TECH
- 4. ANALYSIS OF HEALTH-TECH startups
- 5. Conclusions and Insights, recommendations

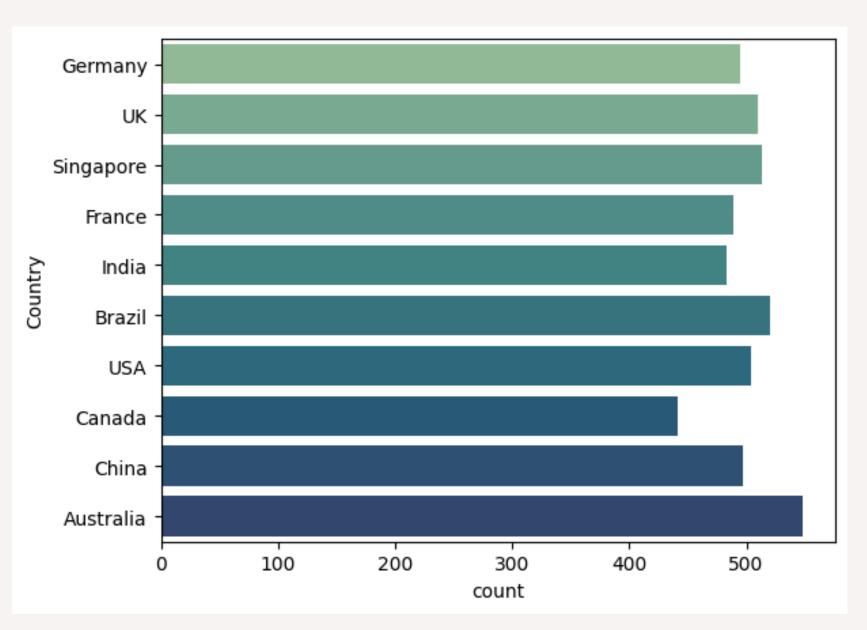
### GENERALANALYSIS

# Power BI Dashboard and Exploratory Data Analysis with Python

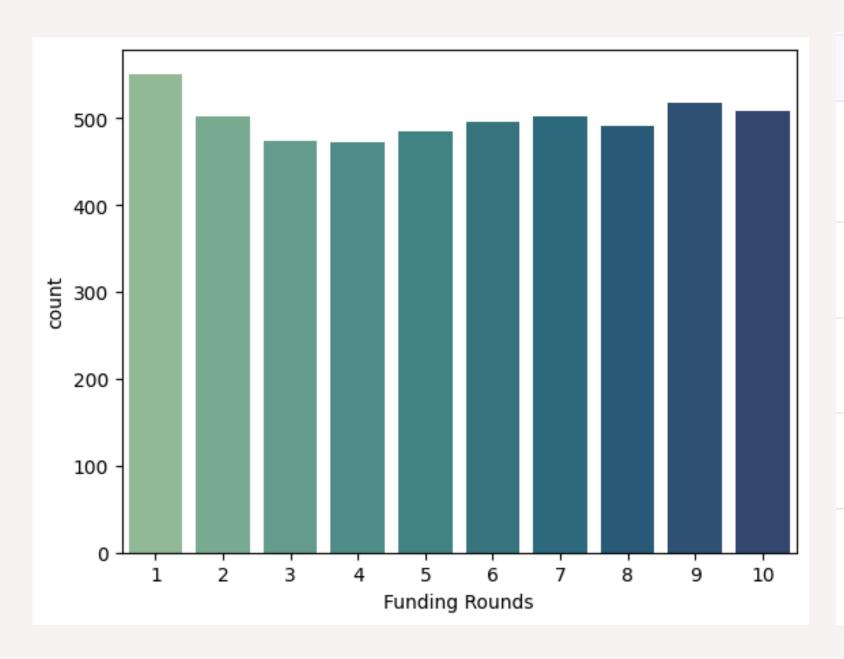


### INDUSTRY AND COUNTRY



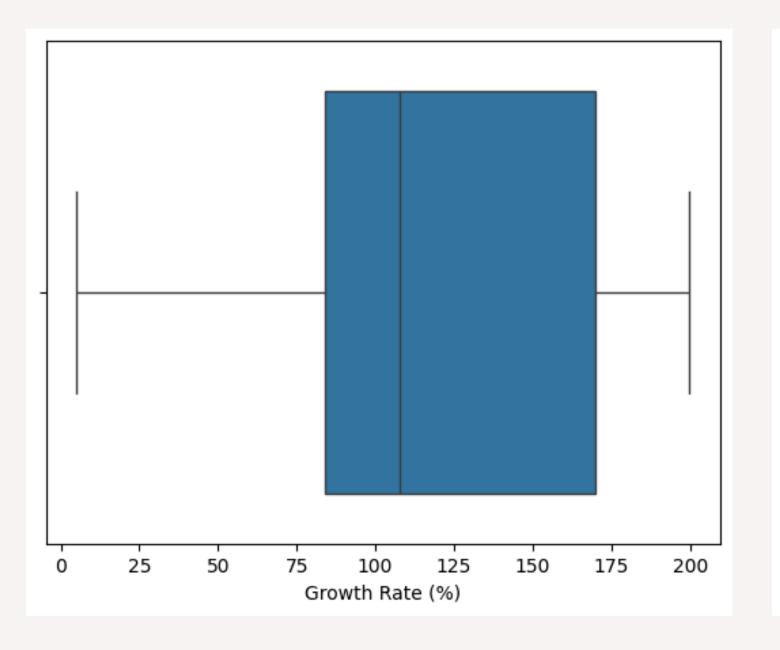


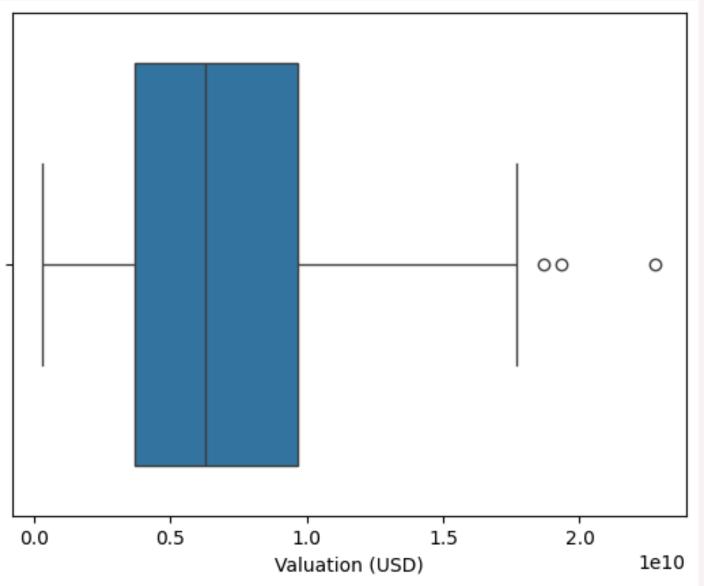
### FUNDING ROUNDS



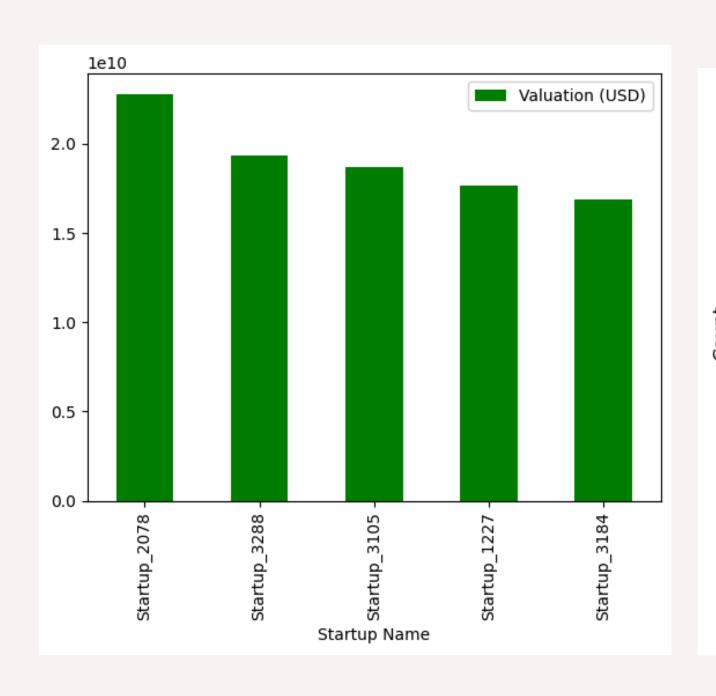
Funding round	Typical funding amount (USD)	Investor types	Main purpose
Pre-Seed	\$100,000 – \$250,000	Founders, friends and family, angel investors, incubators	Validate business idea, conduct initial market research, develop a minimum viable product (MVP)
Seed	\$1 million – \$4 million	Angel investors, early-stage venture capital firms, crowdfunding platforms	Product development, market testing, hiring key team members
Series A	\$2 million – \$15 million	Venture capital firms	Optimize product, expand user base, establish a scalable business model
Series B	\$15 million – \$25 million	Venture capital firms, private equity firms	Scale operations, enter new markets, increase market share
Series C	\$25 million – \$100 million	Late-stage venture capital firms, private equity firms, hedge funds, investment banks	Develop new products, expand globally, prepare for potential IPO or acquisition

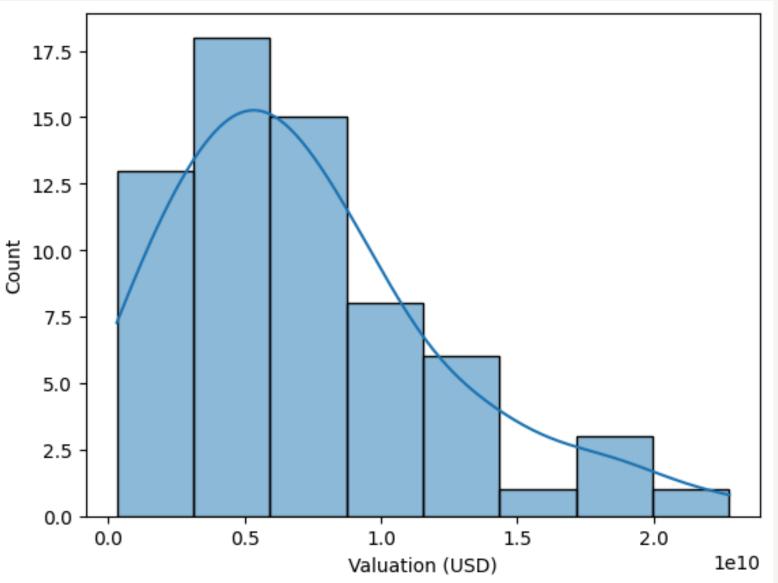
### GROWTH RATE AND VALUATION



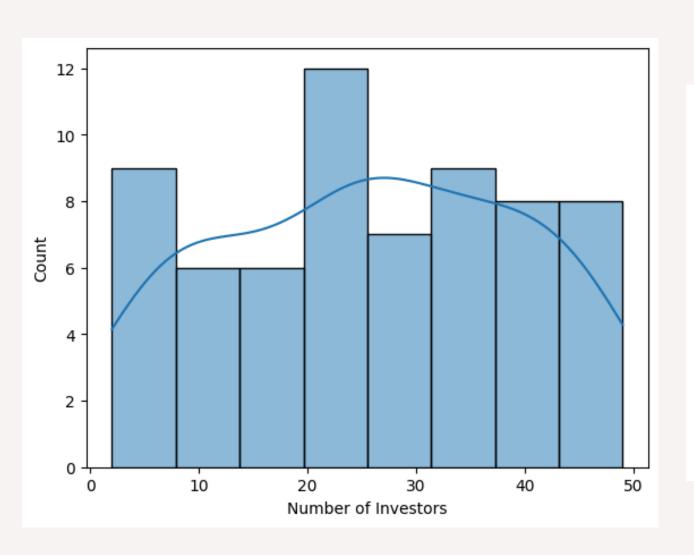


### TOP STARTUPS AND GENERAL VALUATION



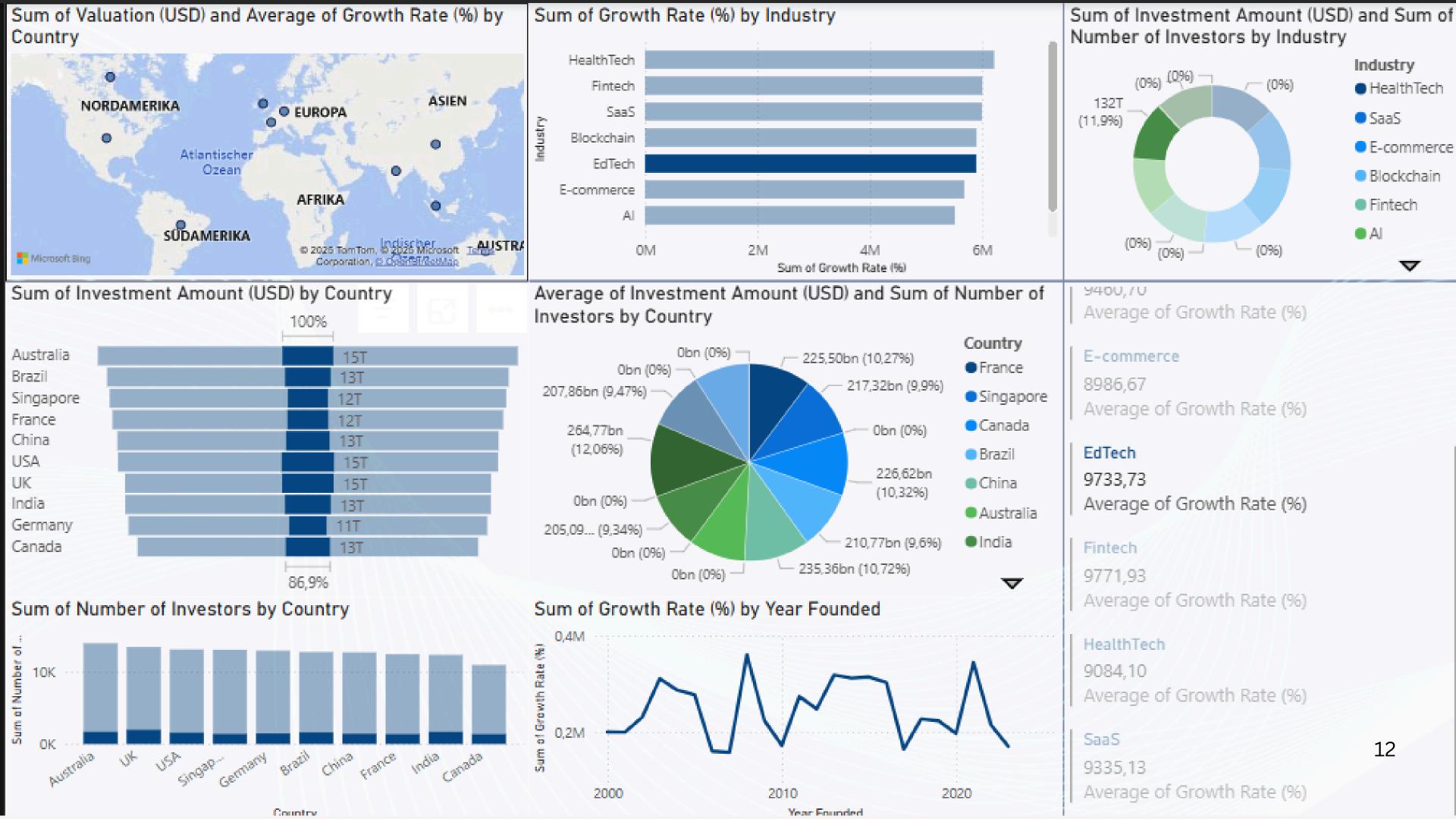


### NUMBER OF INVESTORS

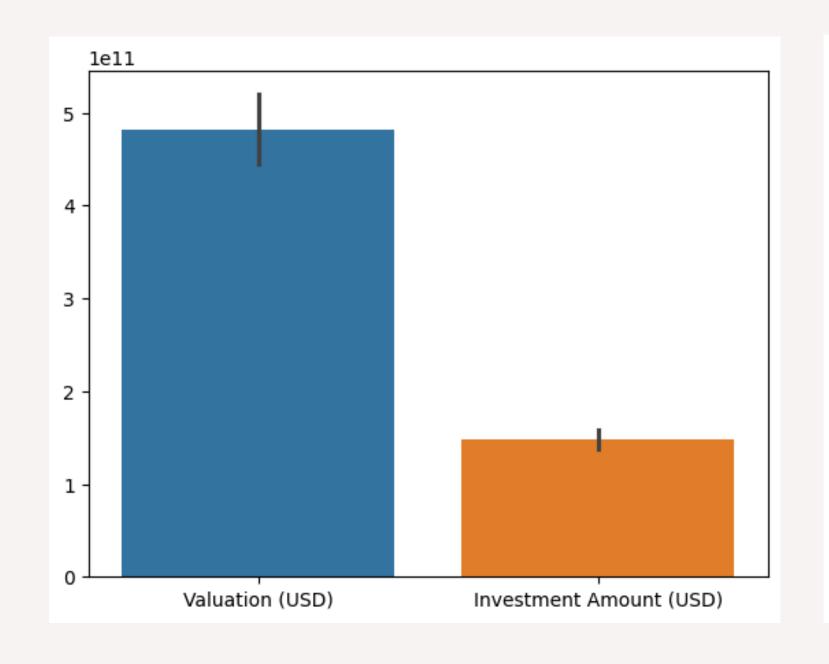


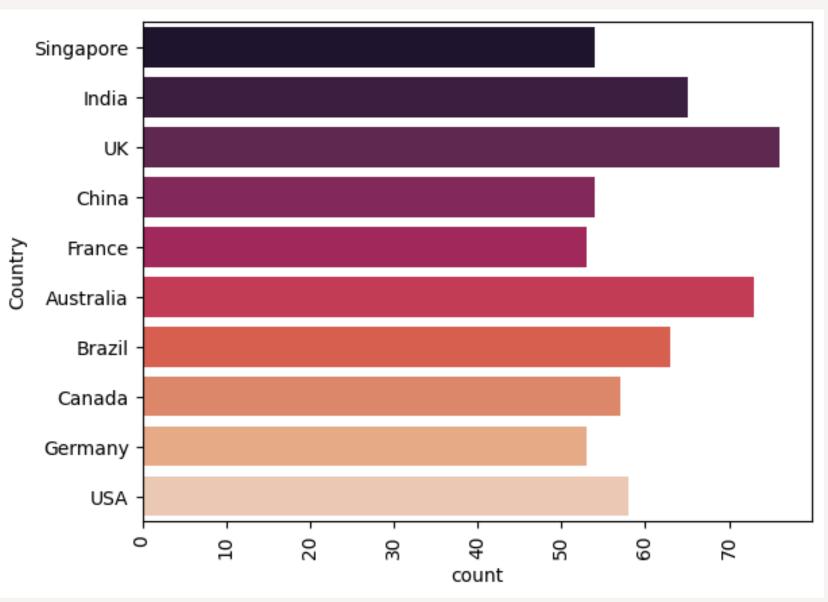
- **Angel investors** High-net-worth individuals who invest their personal money in early-stage startups in exchange for equity.
- Venture Capital (VC) firms Institutional investors that specialize in funding high-potential startups. Many VC firms have dedicated seed funds to invest in promising early-stage businesses
- Startup accelerators and incubators Programs like Y Combinator and Techstars provide funding, mentorship, and resources in exchange for equity.
- Corporate investors Some large corporations invest in startups that align with their industry or technology strategy.

## ED-TECH STARTUPS

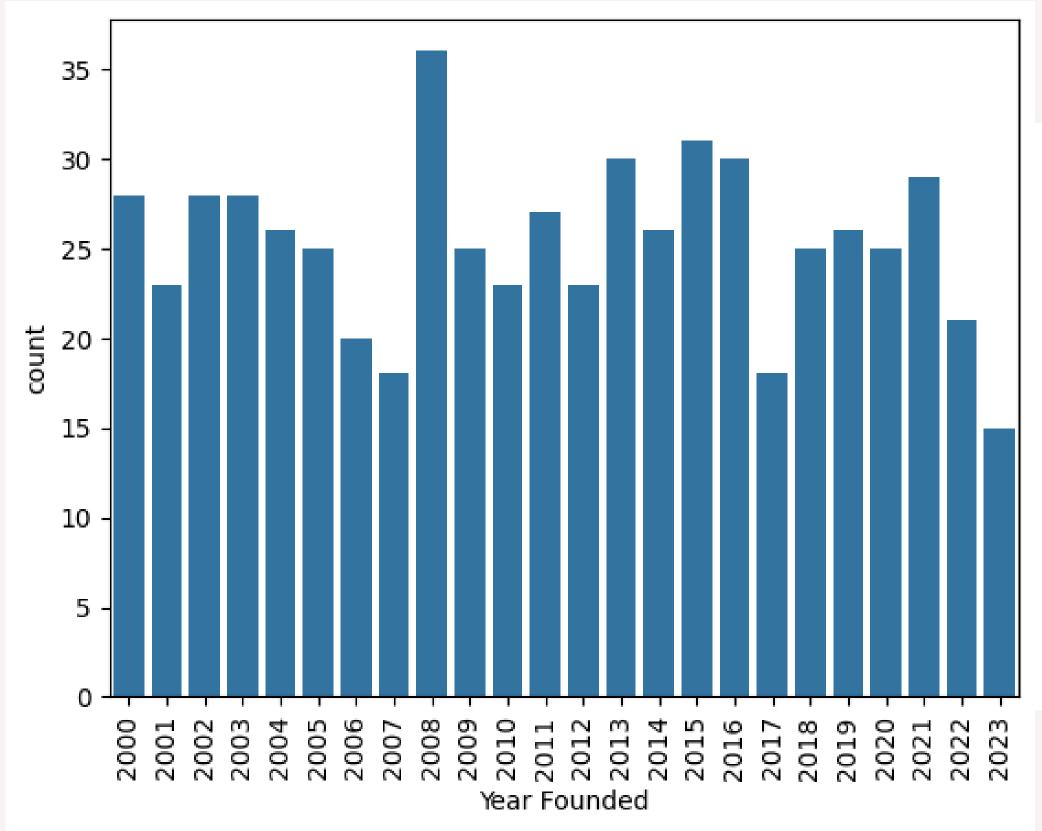


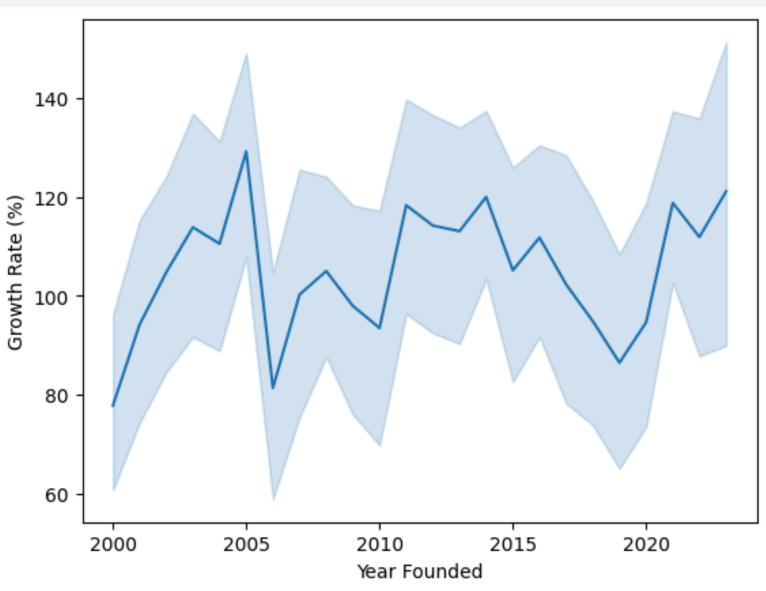
### Valuation, Investment Amount, and count per country



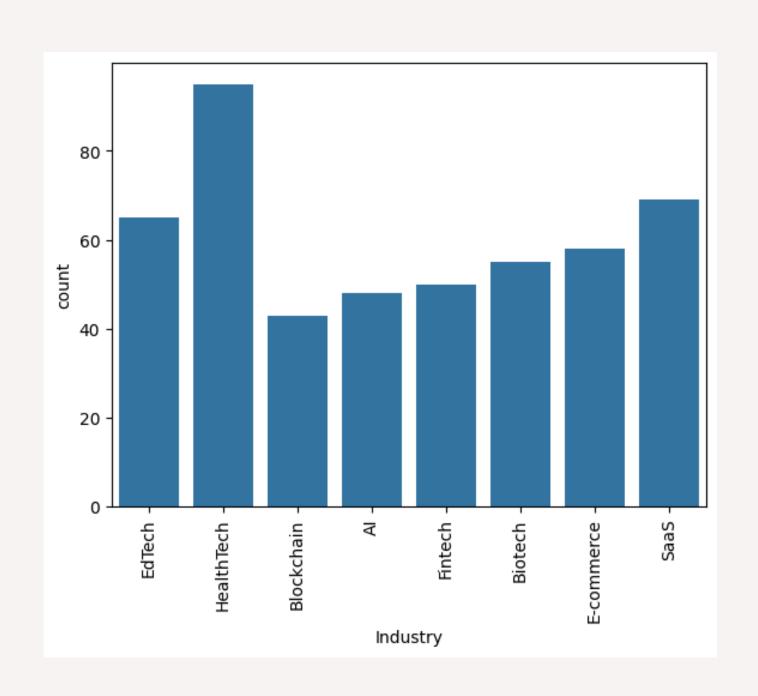


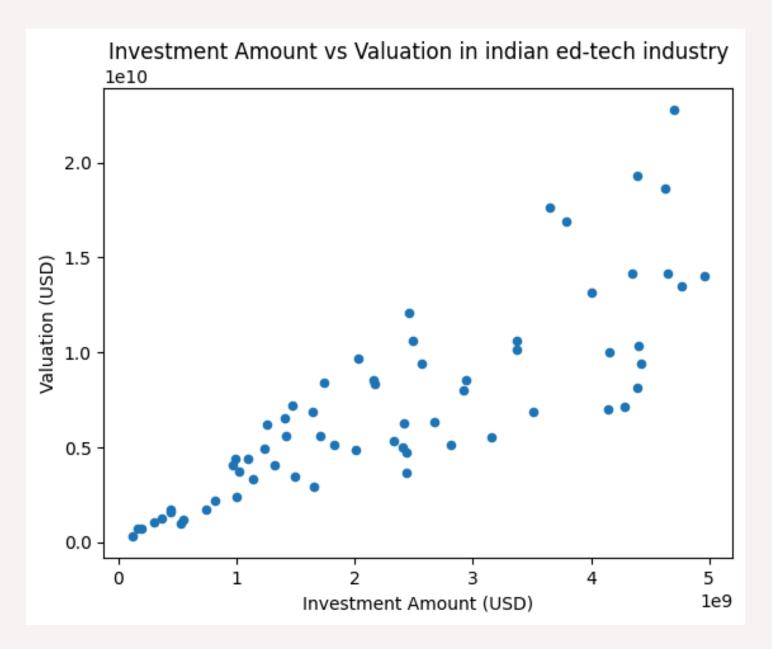
## YEAR FOUNDED





## INDIAN ED-TECH





## Indian Ed-Tech

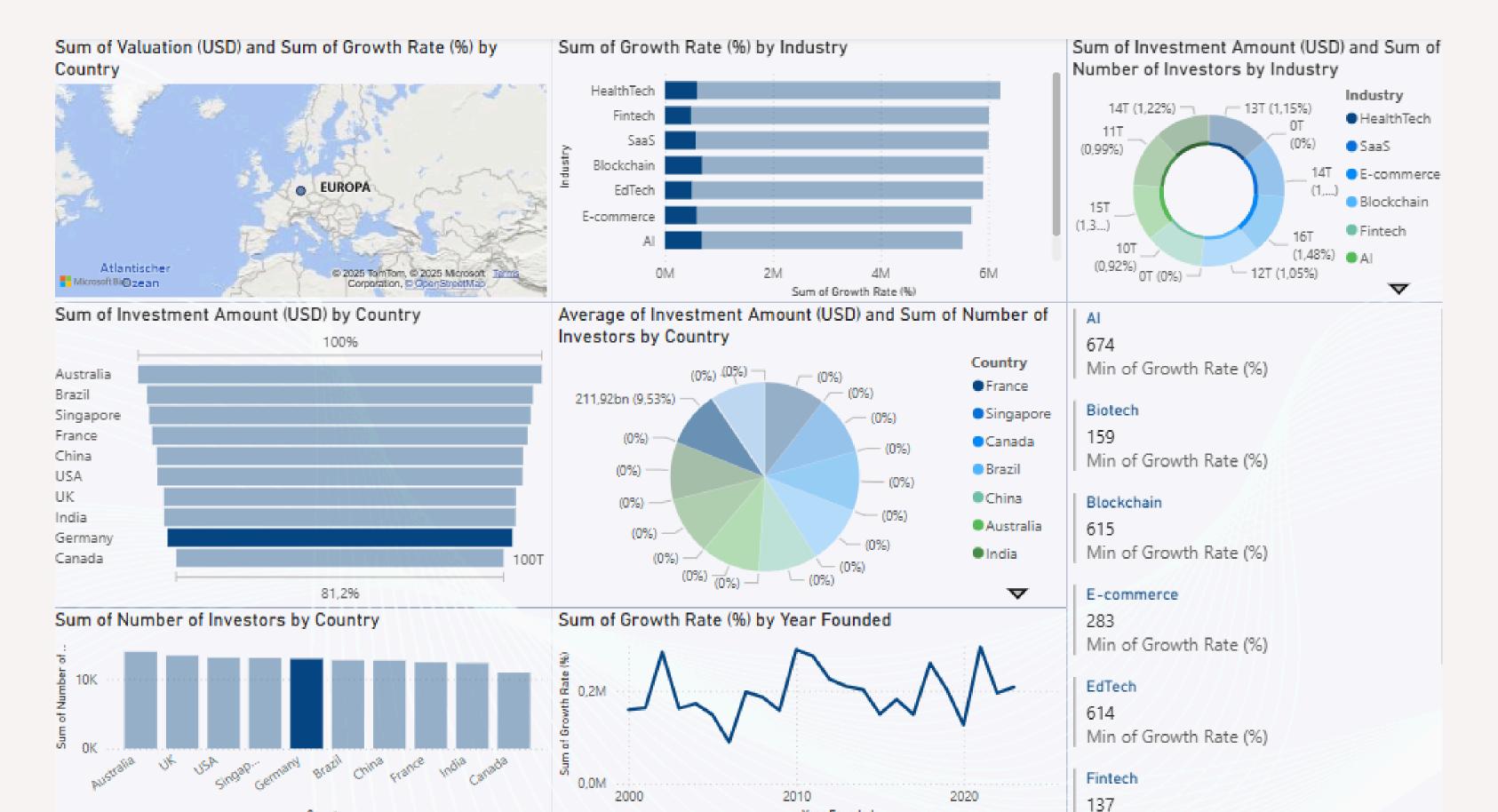
	Funding Rounds	Investment Amount (USD)	Valuation (USD)	Number of Investors	Year Founded	Growth Rate (%)
count	65.000000	6.500000e+01	6.500000e+01	65.000000	65.000000	65.000000
mean	5.369231	2.328630e+09	7.205402e+09	25.923077	2011.938462	116.780308
std	3.105284	1.436880e+09	5.018298e+09	13.840958	6.816517	52.811459
min	1.000000	1.169058e+08	3.134750e+08	2.000000	2000.000000	5.140000
25%	3.000000	1.142746e+09	3.688922e+09	15.000000	2008.000000	84.000000
50%	5.000000	2.167353e+09	6.279825e+09	25.000000	2012.000000	107.700000
75%	8.000000	3.505496e+09	9.660626e+09	37.000000	2018.000000	170.020000
max	10.000000	4.956248e+09	2.278211e+10	49.000000	2022.000000	199.860000

## Correlation Matrix of Edtech

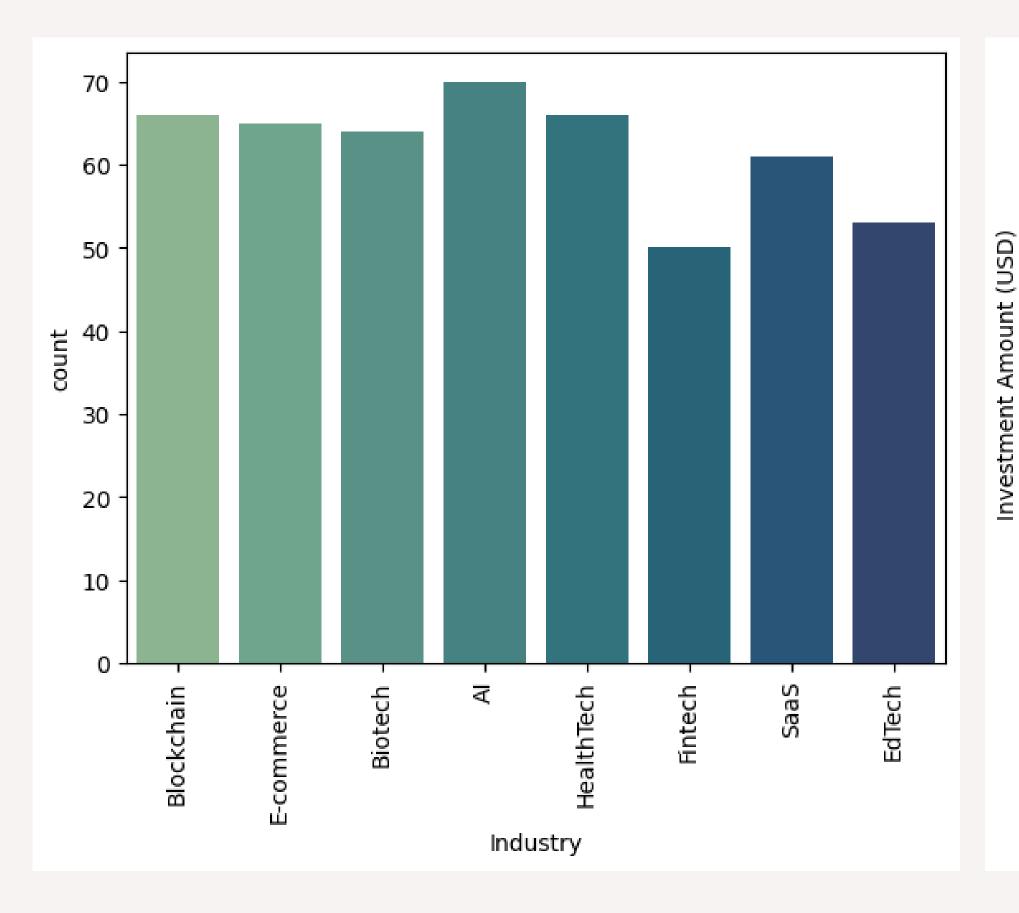
	Funding Rounds	Investment Amount (USD)	Valuation (USD)	Number of Investors	Year Founded	Growth Rate (%)
Funding Rounds	1.000000	0.068566	0.059160	-0.008379	0.028558	0.034864
Investment Amount (USD)	0.068566	1.000000	0.843300	-0.018394	0.050286	0.038771
Valuation (USD)	0.059160	0.843300	1.000000	-0.052447	0.045508	-0.005908
Number of Investors	-0.008379	-0.018394	-0.052447	1.000000	-0.071855	-0.037833
Year Founded	0.028558	0.050286	0.045508	-0.071855	1.000000	0.046124
Growth Rate (%)	0.034864	0.038771	-0.005908	-0.037833	0.046124	1.000000

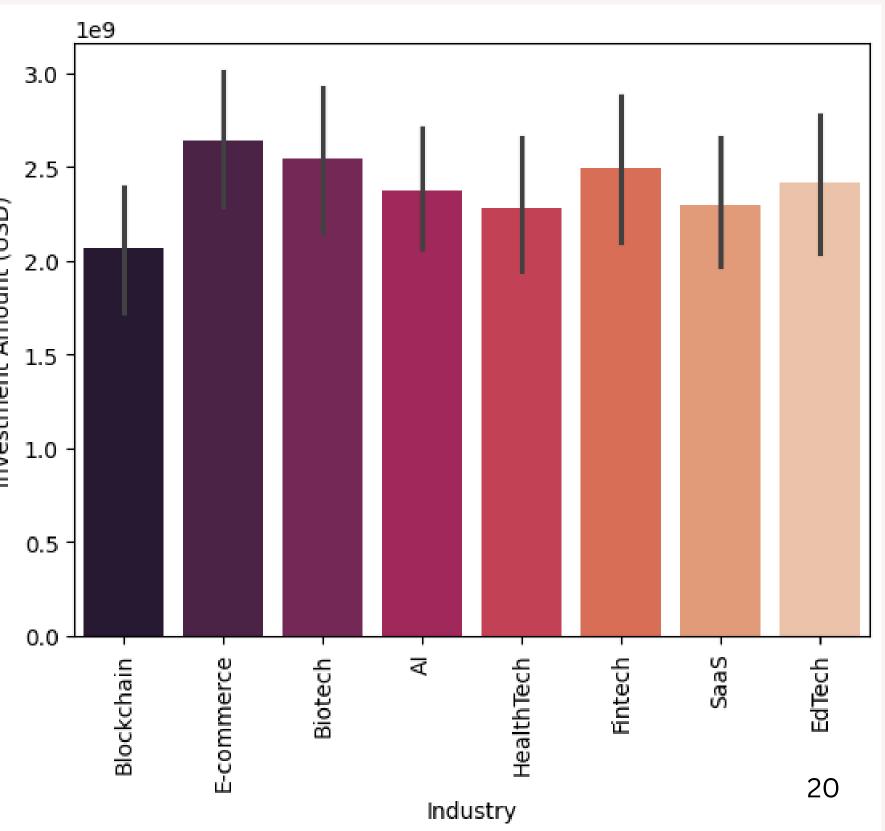
# GENERAL ANALYSIS OF GERMANY

### GERMANY

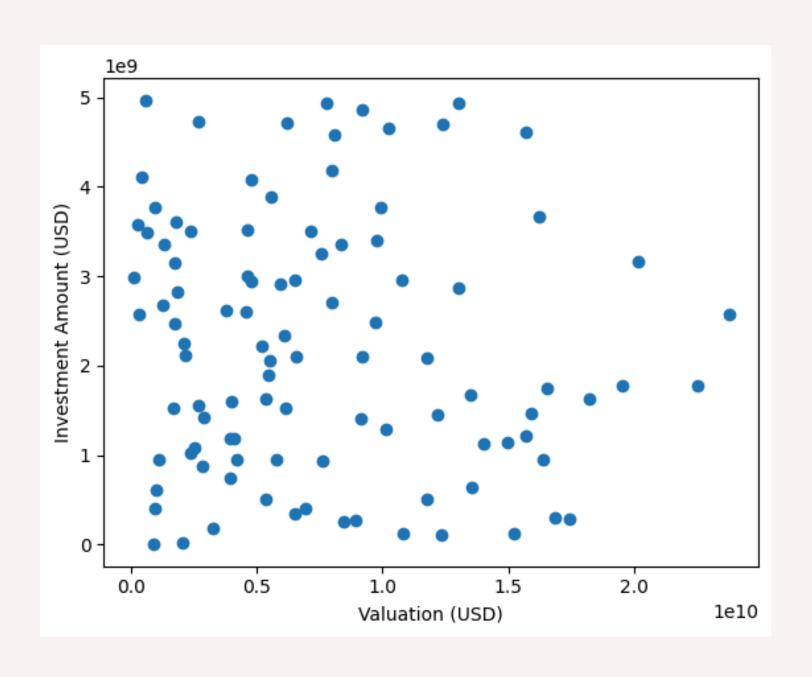


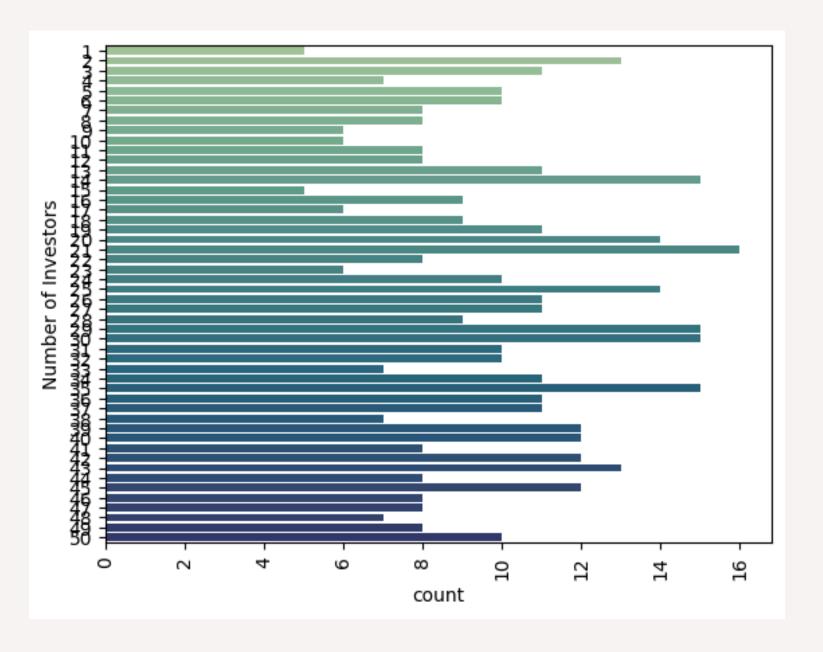
### Industry count and industry/investment analysis



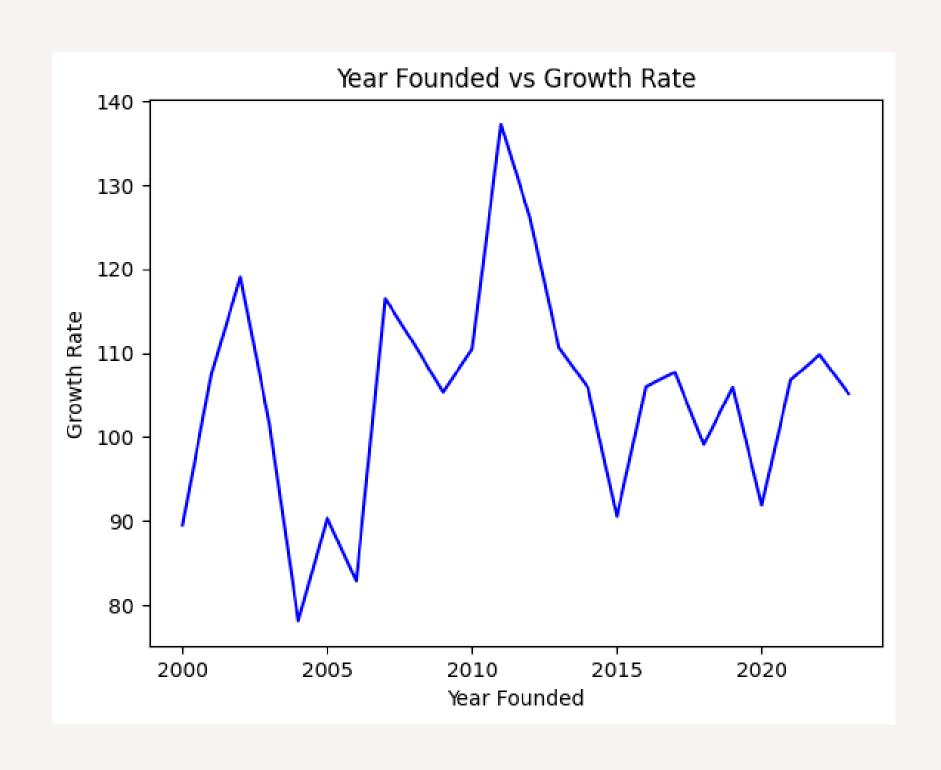


#### INVESTMENT AMOUNT AND NUMBER OF INVESTORS



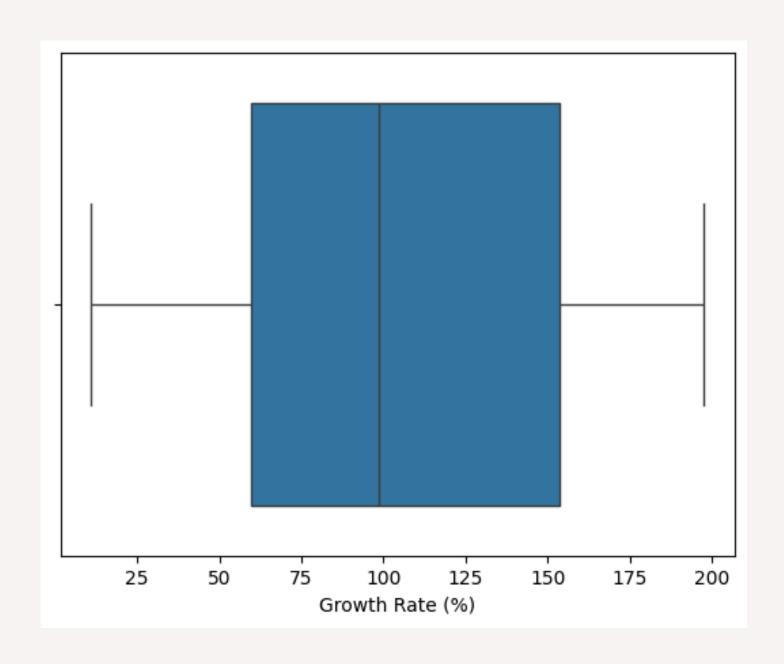


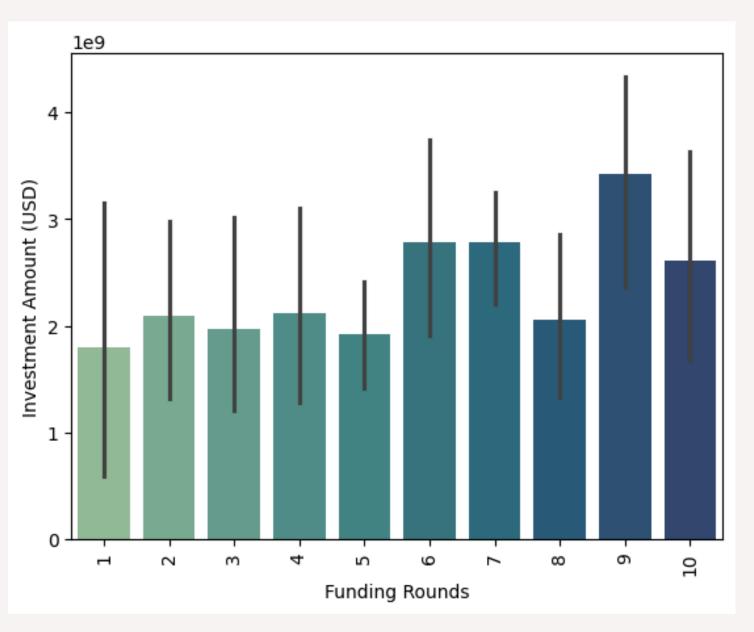
# Year of Foundation vs Growth Rate and Correlation Matrix of Numeric Features



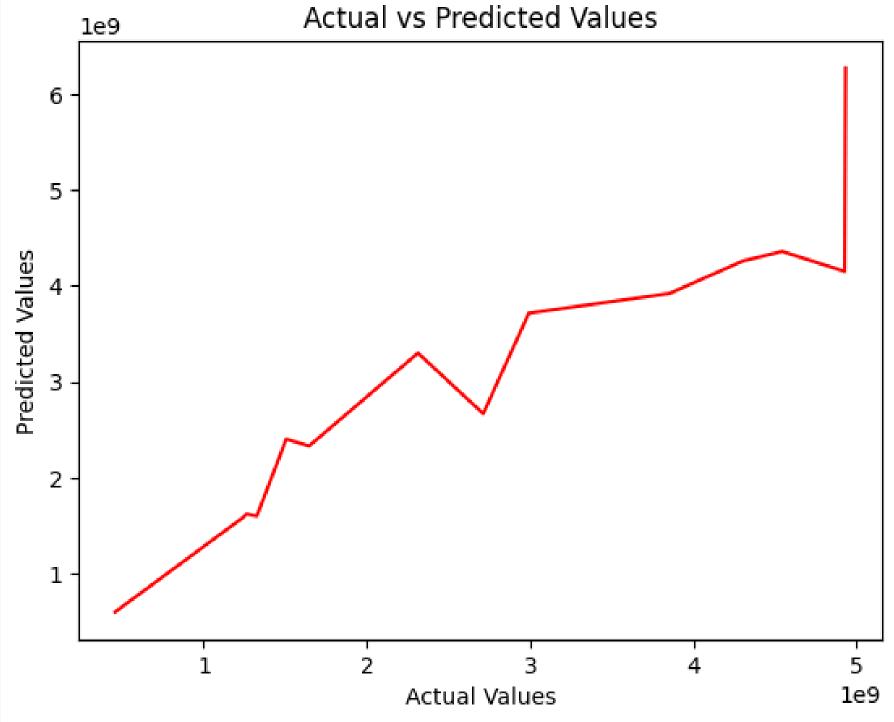


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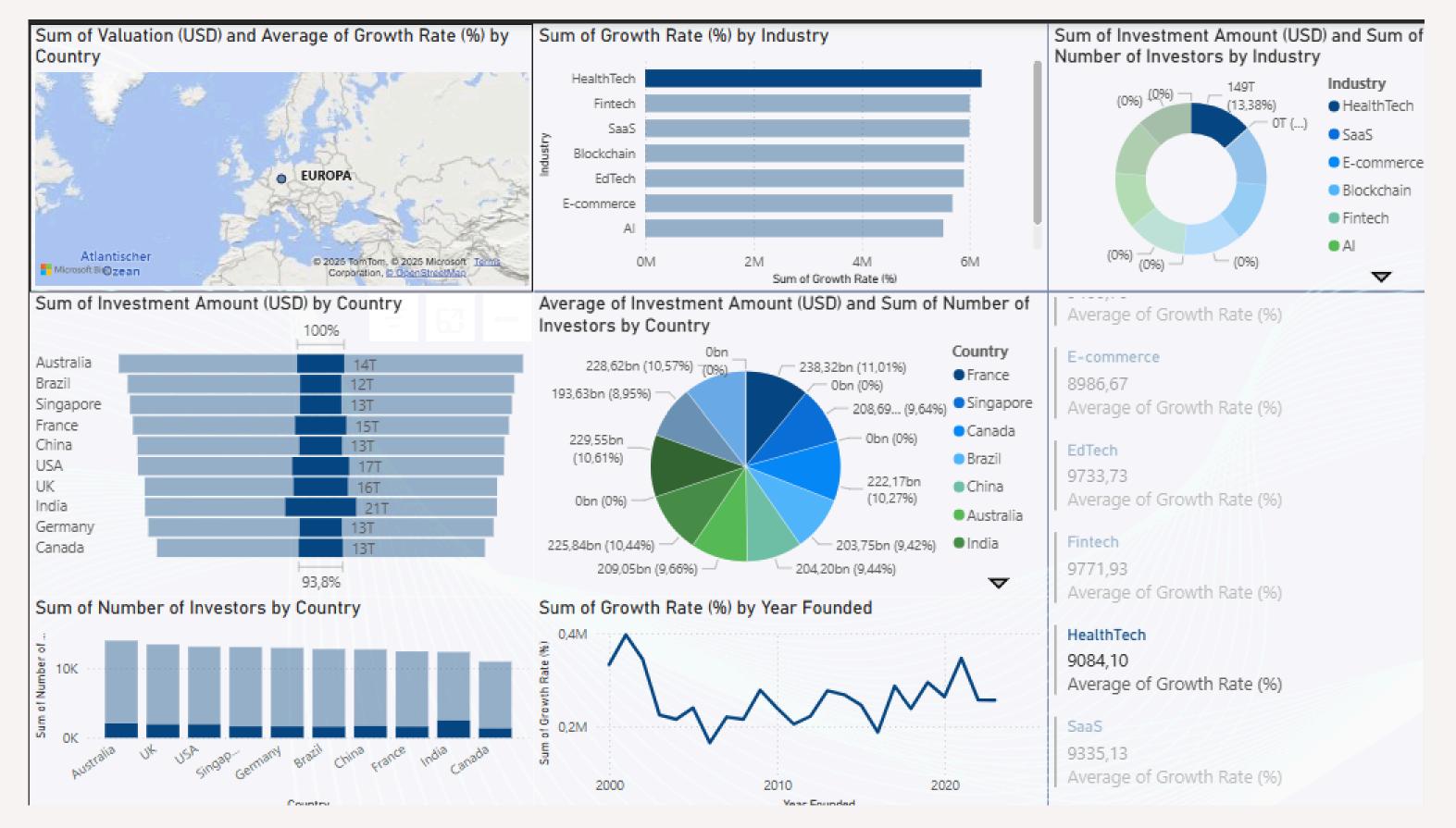


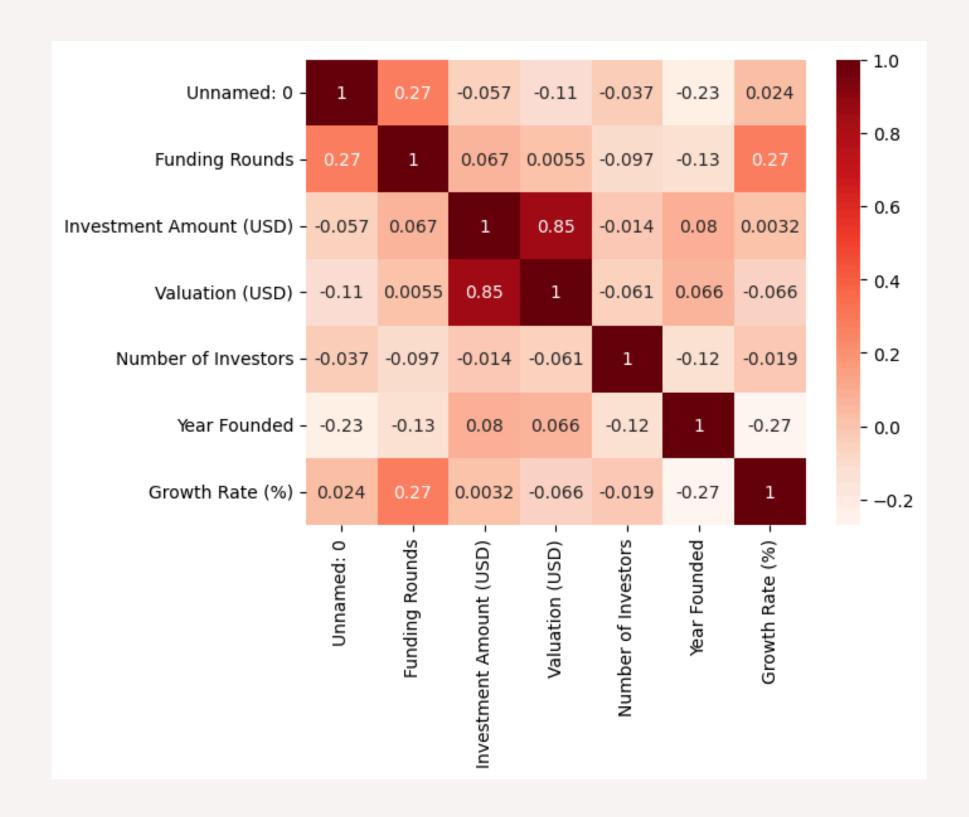




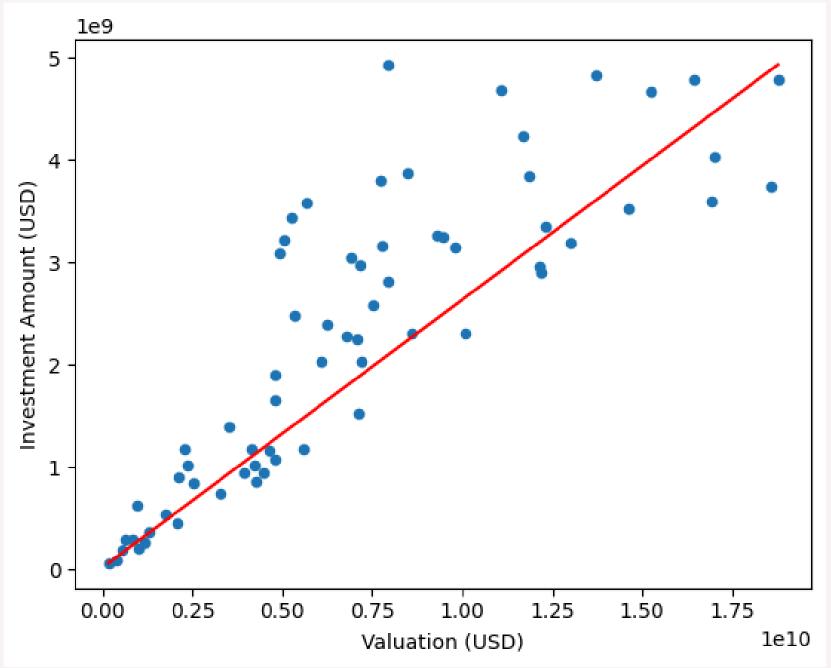


### GERMAN HEALTH-TECH

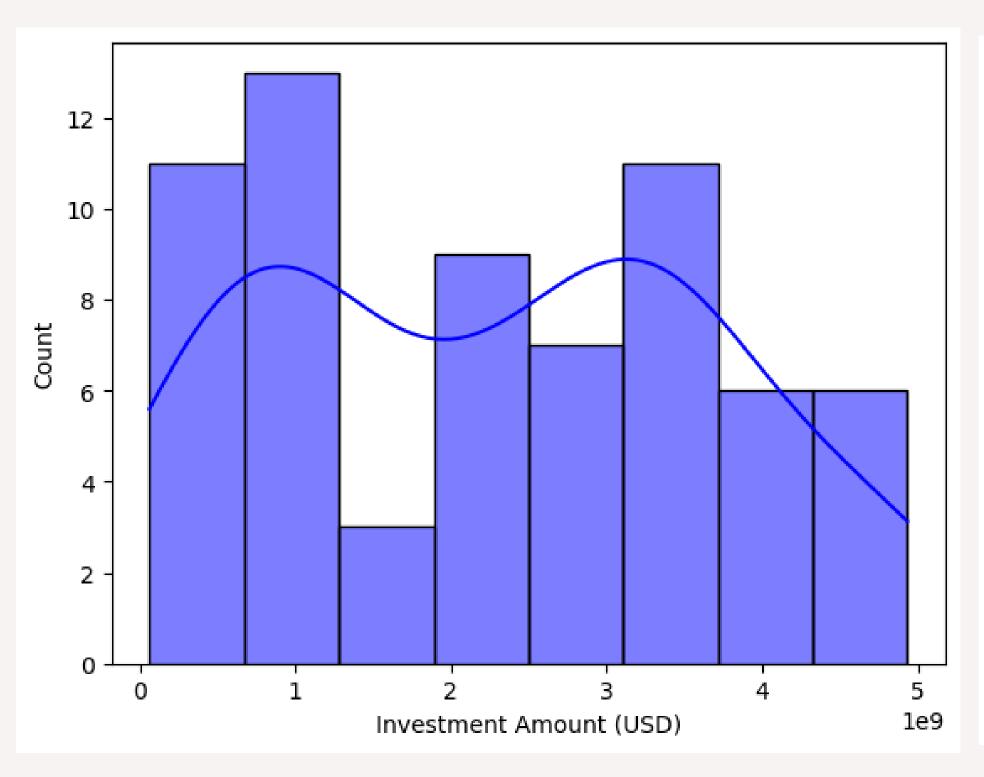


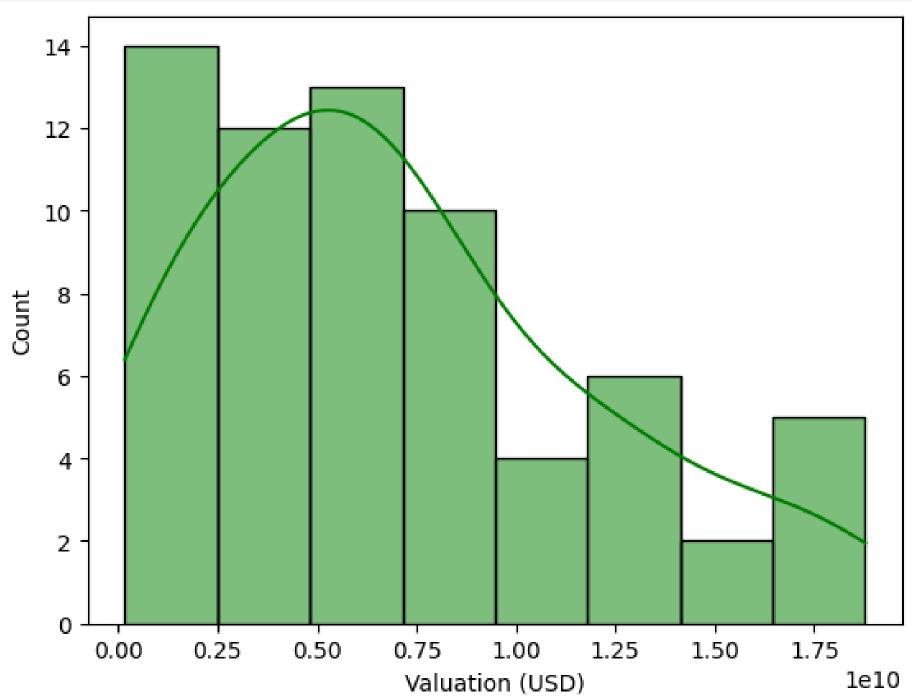


# Investment amount and valuation



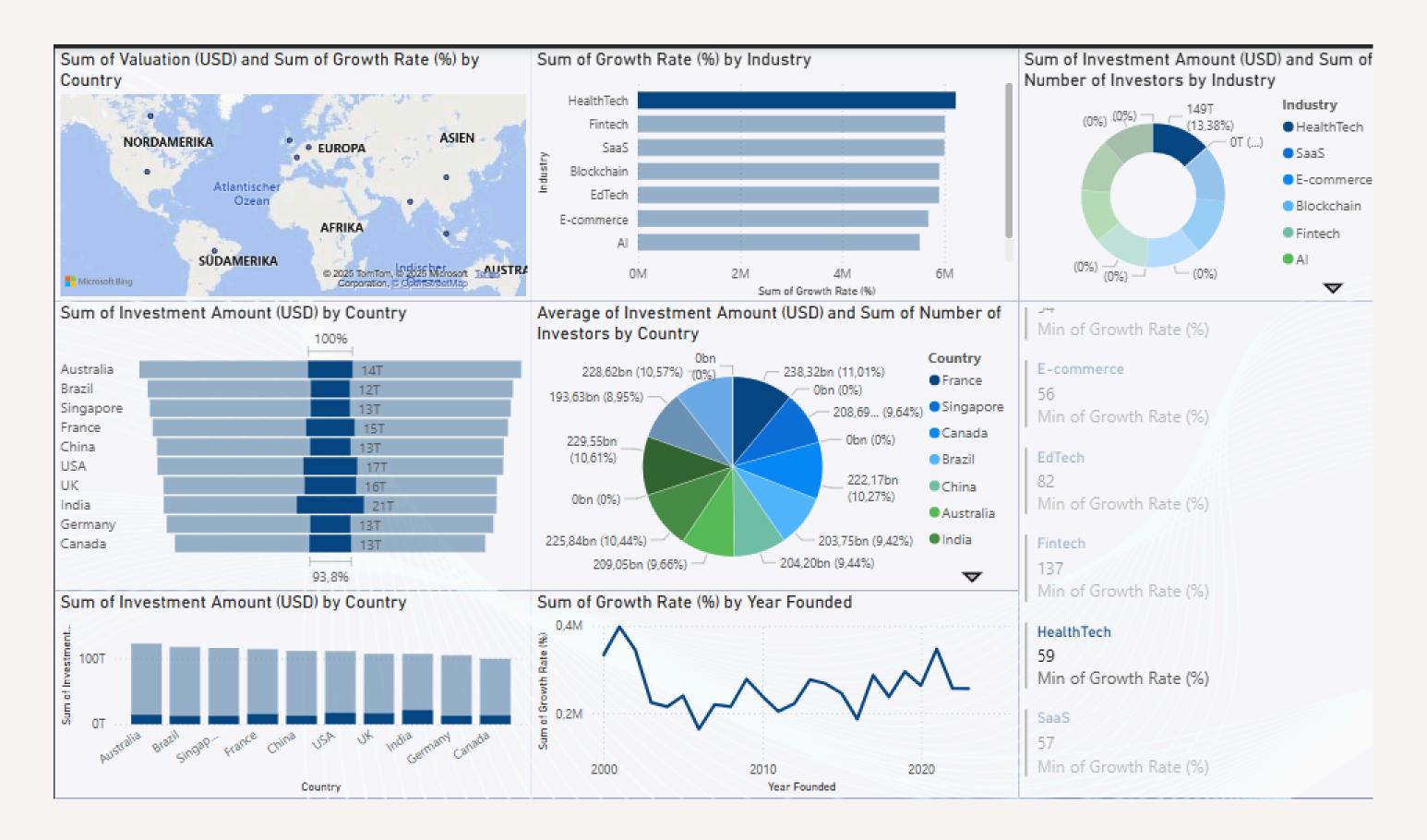
#### INVESTMENT AMOUNT VS VALUATION



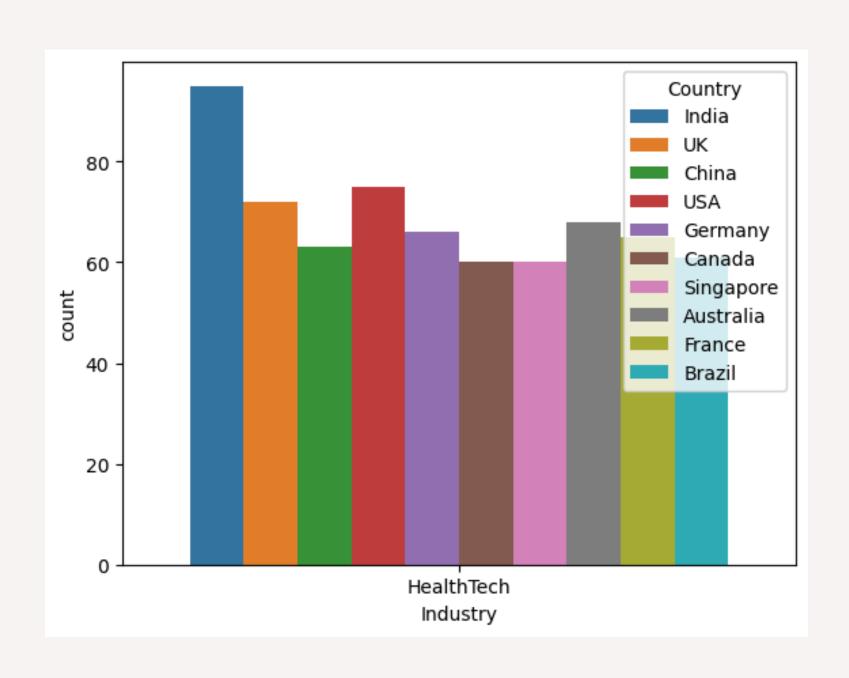


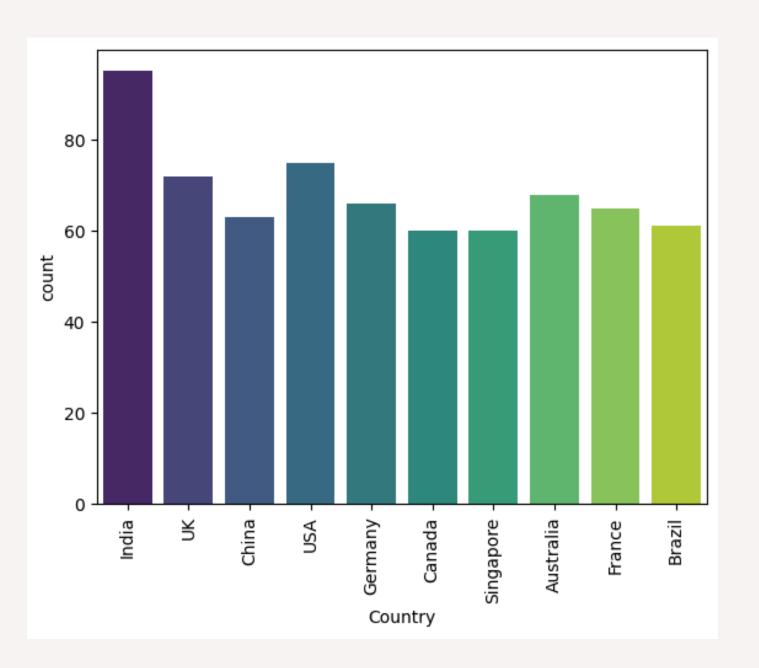
## HEALTH-TECH STARTUPS

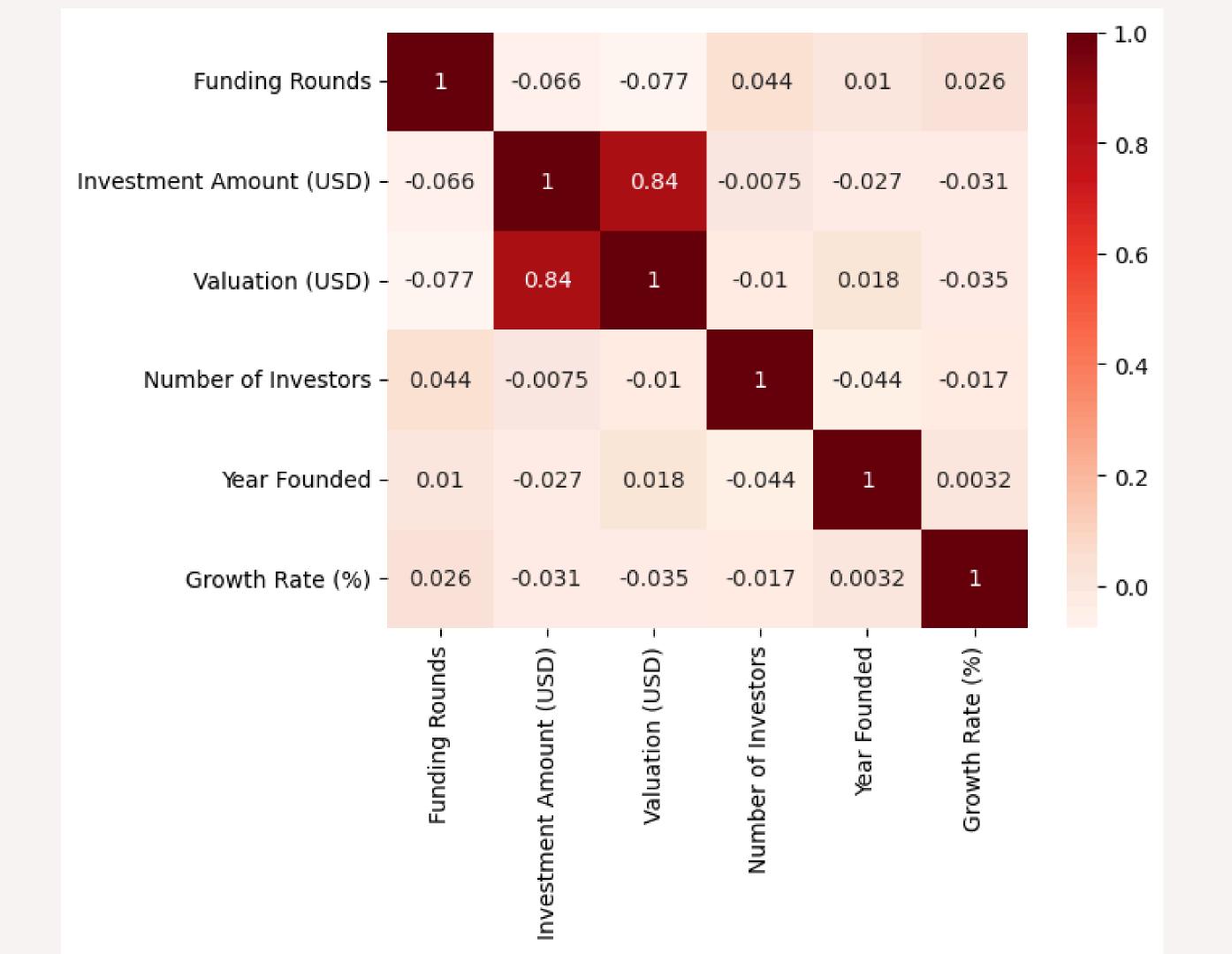
### GENERAL HEALTH TECH



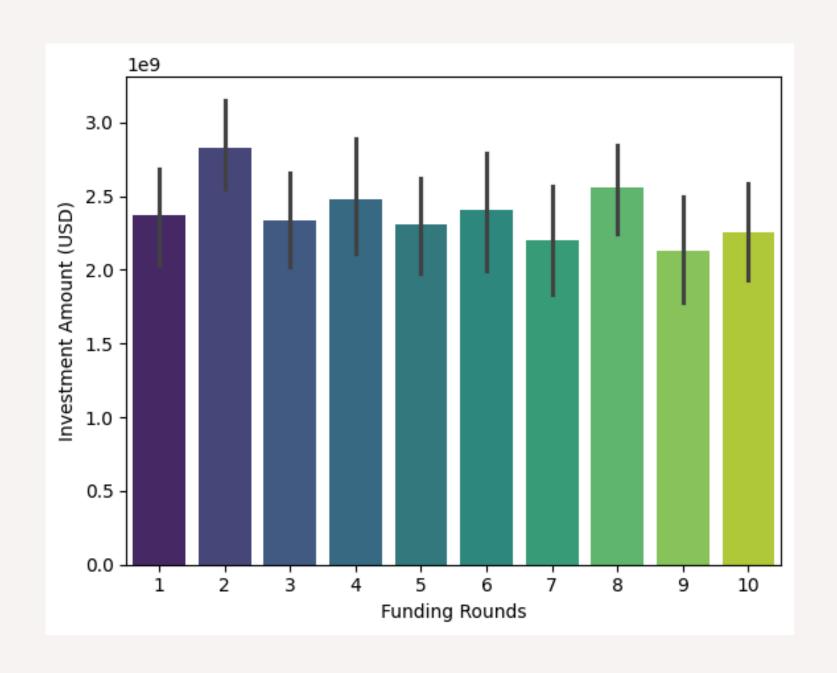
### Health tech industry in different countries

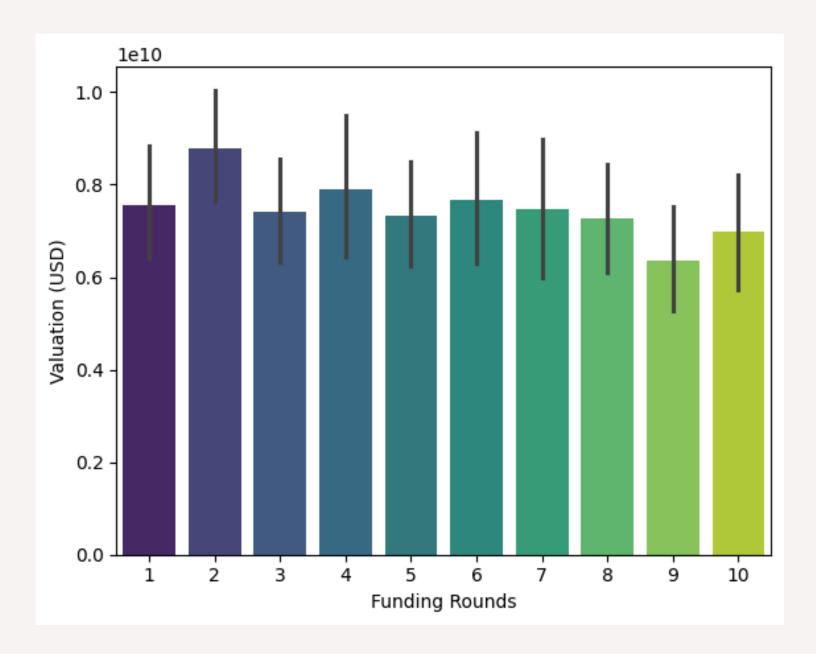






### VALUATION AND INVESTMENT AMOUNT





#### GENERAL INSIGHTS & RECOMMENDATIONS

In this project it has been investigated a hypothetical scenario on startup growth and investments. It has been investigated several industries and countries, with an emphasis on german health-tech and indian ed-tech. The correlation matrices were shown in order to look up for interrelating factors, to find a relationships among the feaures numerically.

# THANKYOU