

Business Intelligence Dashboard: Global Startup Analysis (2000–2014)

P O R T F O L I O A N A L Y S I S T A S K U S I N G T A B L E A U

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INTRODUCTION

WHAT IS BI DASHBOARD

According to *Turban, Sharda, and Delen (2011), a Business Intelligence (BI) Dashboard is "a visual interface that provides at-a-glance views of key performance indicators (KPIs) relevant to business objectives. It integrates data from multiple sources and presents actionable insights to support decision-making

WHY THIS PORTFOLIO

This portfolio aims to analyze global startup trends (2000-2014) using Tableau, providing insights into funding, investors, and industry growth. It also helps to understand early-stage company growth, as this period marks the rapid expansion of startups following the dot-com bubble crash (2000-2002).

TOOLS USED

- ✓ Tableau – Interactive data visualization
- ✓ Excel/CSV Dataset – Source of startup data

*Turban, E., Sharda, R., & Delen, D. (2011). Decision Support and Business Intelligence Systems (9th ed.). Pearson.

DATASET OVERVIEW

SOURCE OF DATA

- The dataset used in this project comes from Crunchbase Monthly Export.
- It contains information about global startup trends from 2000 to 2014.
- Data includes funding rounds, investors, industries, and startup status.

DATASET STRUCTURED

The dataset consists of multiple columns, with key attributes as follows:

Column Name	Description
startup_name	Name of the startup
founded_year	Year the startup was established
market	Industry category (e.g., Biotech, E-commerce, Software)
funding_total_usd	Total funding received (in USD)
funding_rounds	Number of funding rounds received
funding_type	Type of funding (Venture, Seed, Private Equity, etc.)
investor_count	Total number of investors involved
investor_name	Name of investors backing the startup
region	Location of the startup
startup_status	Operating, acquired, or closed
ipo_status	Whether the startup has gone public (Yes/No)

DATA PREPARATION

1. DATA CLEANING

- ✓ Removing duplicate records
- ✓ Handling missing values (imputation or removal)
- ✓ Standardizing text formats (e.g., capitalization, spacing)

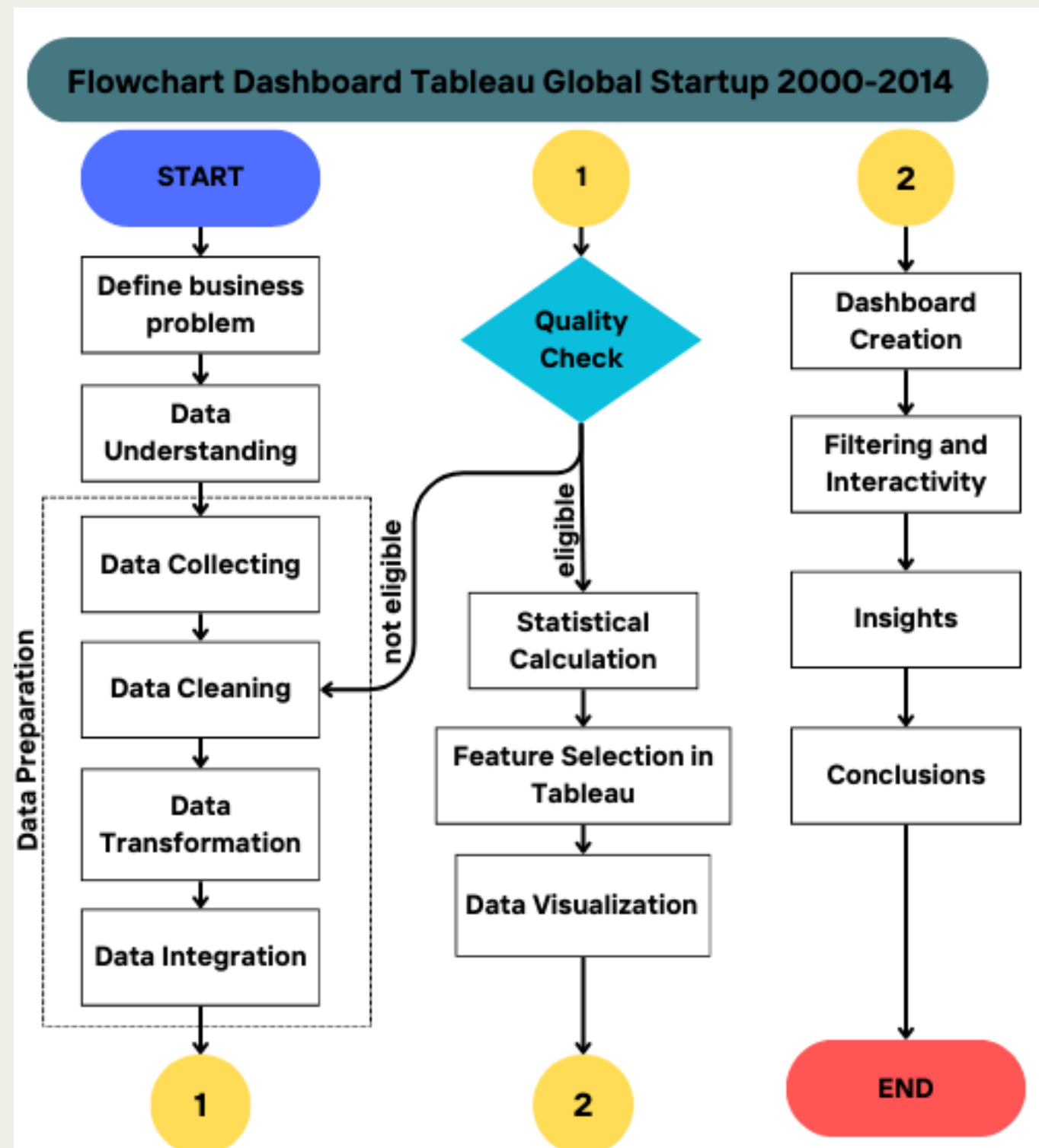
2. DATA TRANSFORMATION

- ✓ Converting financial figures into a standard currency (USD)
- ✓ Changing data types for numerical and categorical variables
- ✓ Extracting relevant information from unstructured data

3. DATA INTEGRATION

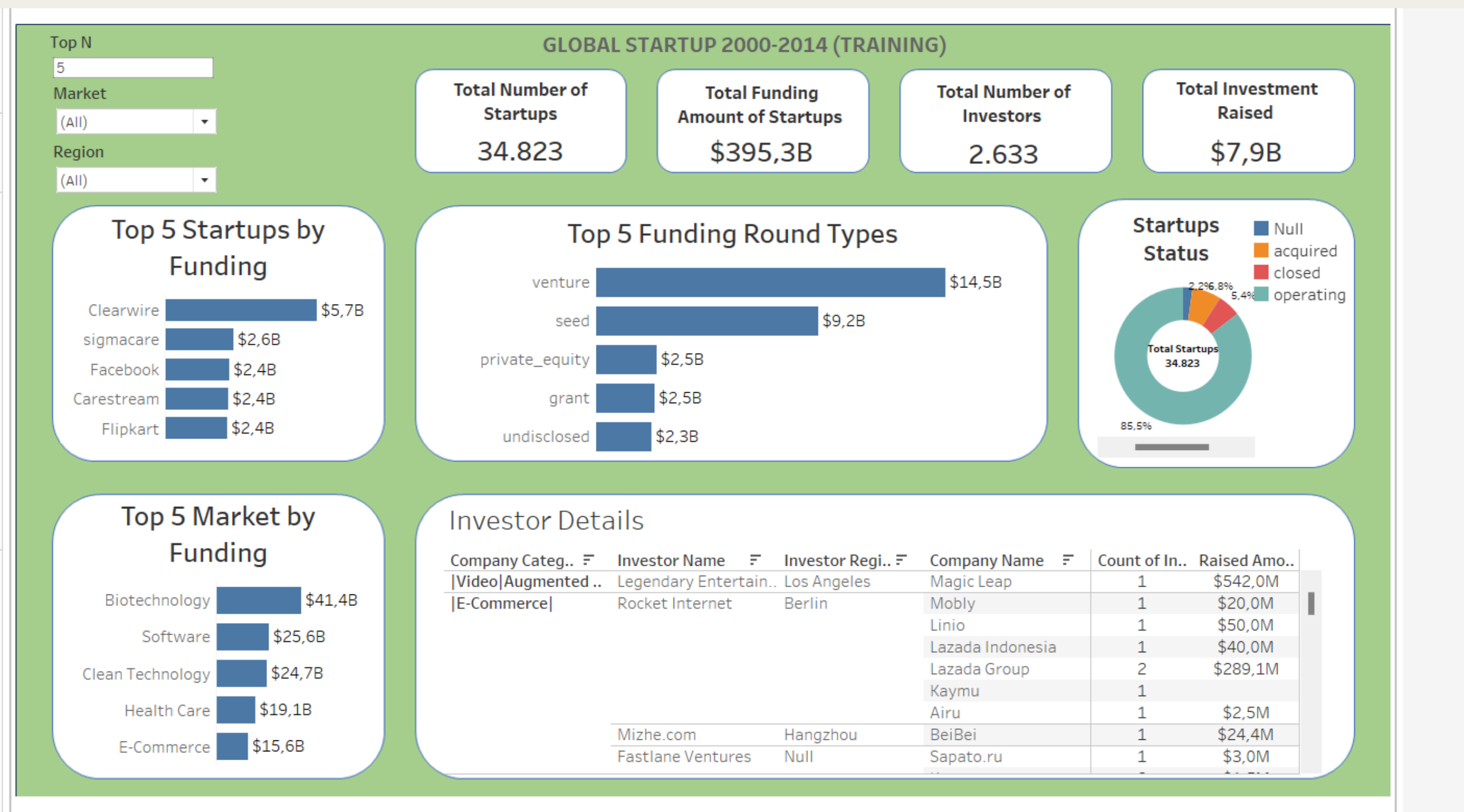
- ✓ Selecting only relevant startups and investment data
 - ✓ Grouping data by industry, funding type, and region
 - ✓ Calculating total funding and average investment per industry
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DATA FLOW & ARCHITECTURE



This flowchart represents the data processing and dashboard creation workflow in Tableau for analyzing global startup trends from 2000 to 2014

BI DASHBOARD



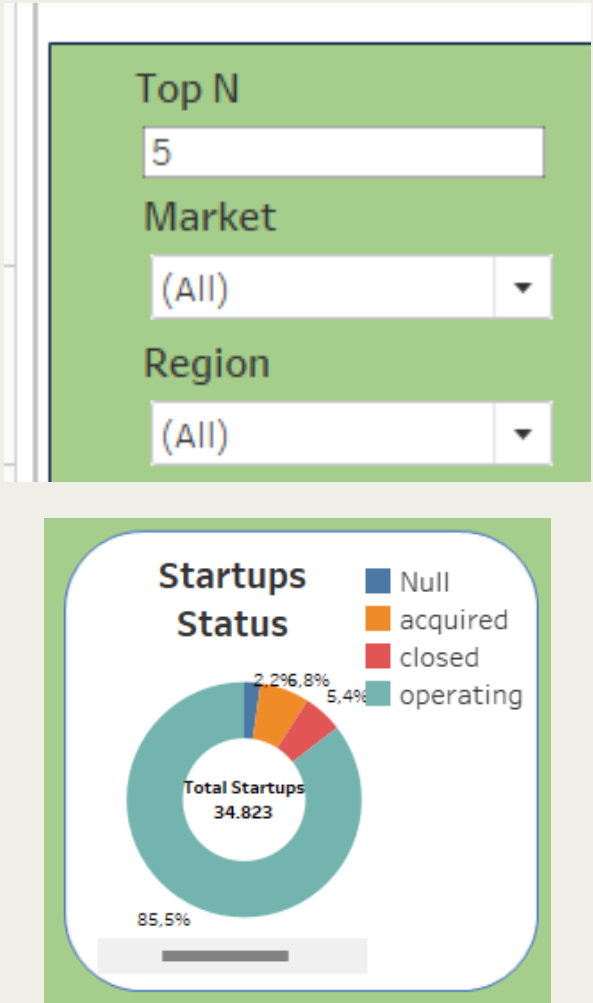
BI DASHBOARD AND INTERACTIVITY

TABLEAU DASHBOARD OVERVIEW

The BI dashboard provides key insights into global startup trends (2000-2014), highlighting funding distribution, investor activity, and industry performance. Through interactive filters and dynamic visualizations, users can explore various aspects of startup investments and growth patterns.

KEY FEATURES

- ✓ Interactive Filters – Filter data by year, funding type, industry, and region.
- ✓ Drill-Down Analysis – Explore startup performance and investor trends in detail.
- ✓ Dynamic Charts & KPIs – Visualize funding trends, investor activity, and startup status.
- ✓ Startup Lifecycle Tracking – Monitor operating, acquired, and closed startups over time.
- ✓ User-Friendly Navigation – Intuitive layout for seamless exploration.





KEY INSIGHTS FROM THE ANALYSIS



Top-Funded Startups

Clearwire received the highest funding at \$5.7 billion, followed by Sigmacare, Facebook, Carestream, and Flipkart.



Dominant Funding Type

Venture Capital accounted for the majority of investments, totaling \$14.5 billion, indicating investor preference for high-growth startups.



Industries with the Highest Funding

Biotechnology led with \$41.4 billion, followed by Software (\$25.6B) and Clean Technology (\$24.7B).



Startup Status Distribution

85.5% of startups remained operational, while 5.4% were acquired and 2.3% shut down, demonstrating strong survival rates.



Investor Distribution

Investors came from various global regions, showing increased international interest in startup investments.

RECOMMENDATIONS & FUTURE ENHANCEMENTS

Startup Success Prediction

Implement machine learning models to predict startup success or failure based on funding patterns, industry, and other factors.

Investor Segmentation

Use clustering techniques to group investors by their investment behavior and sector preferences.

Funding Recommendation System

Develop an AI-powered funding recommendation system to match startups with the most suitable investors.

Historical Data Limitation

Since the dataset only covers 2000-2014, insights are not reflective of current trends. The dashboard is best used for training and historical analysis, rather than real-time decision-making.

Dataset Update

Incorporate newer datasets to analyze recent startup trends and investment patterns for more relevant insights.



CONCLUSION & FINAL THOUGHTS



KEY TAKEAWAYS:

- ✓ Venture capital dominated as the primary funding type, with a total of \$14.5 billion invested.
- ✓ Biotechnology, Software, and Clean Technology were the industries with the highest funding.
- ✓ 85.5% of startups remained operational, while 5.4% were acquired and 2.3% shut down.
- ✓ The dashboard enables data-driven decision-making for investors, entrepreneurs, and analysts.
- ✓ Future improvements can include machine learning models, investor segmentation, and real-time data integration.



FINAL THOUGHTS

- BI dashboards play a crucial role in analyzing business trends and supporting strategic decisions.
- Expanding the dataset and incorporating predictive analytics will enhance future insights.
- This dashboard serves as a foundation for further research and improvements in startup analysis.

? Q & A - ANY QUESTIONS?

Feel free to ask any questions regarding the BI dashboard, data analysis, or insights from this portfolio



THANK YOU!



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