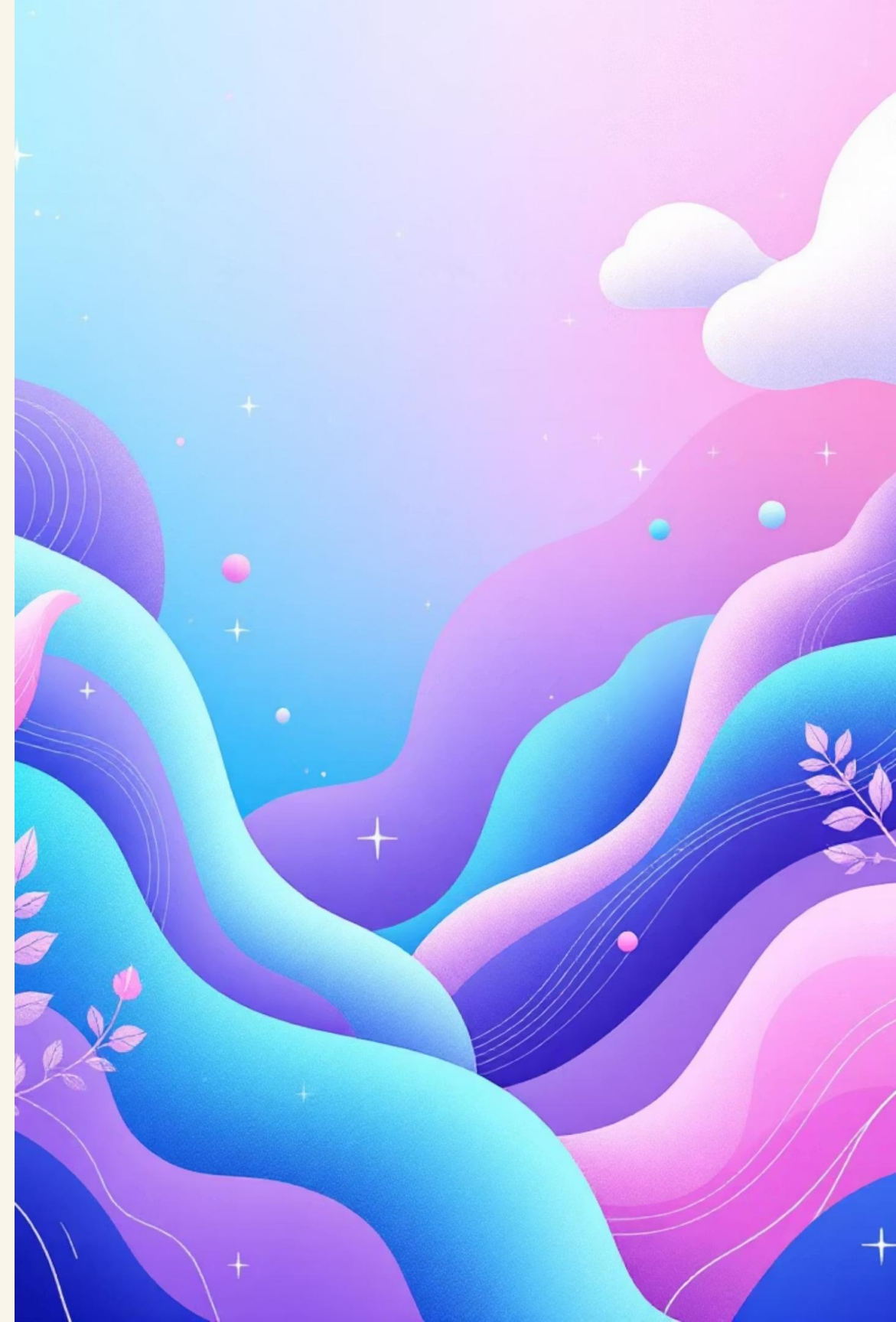


# Industry Workforce Business Analytics

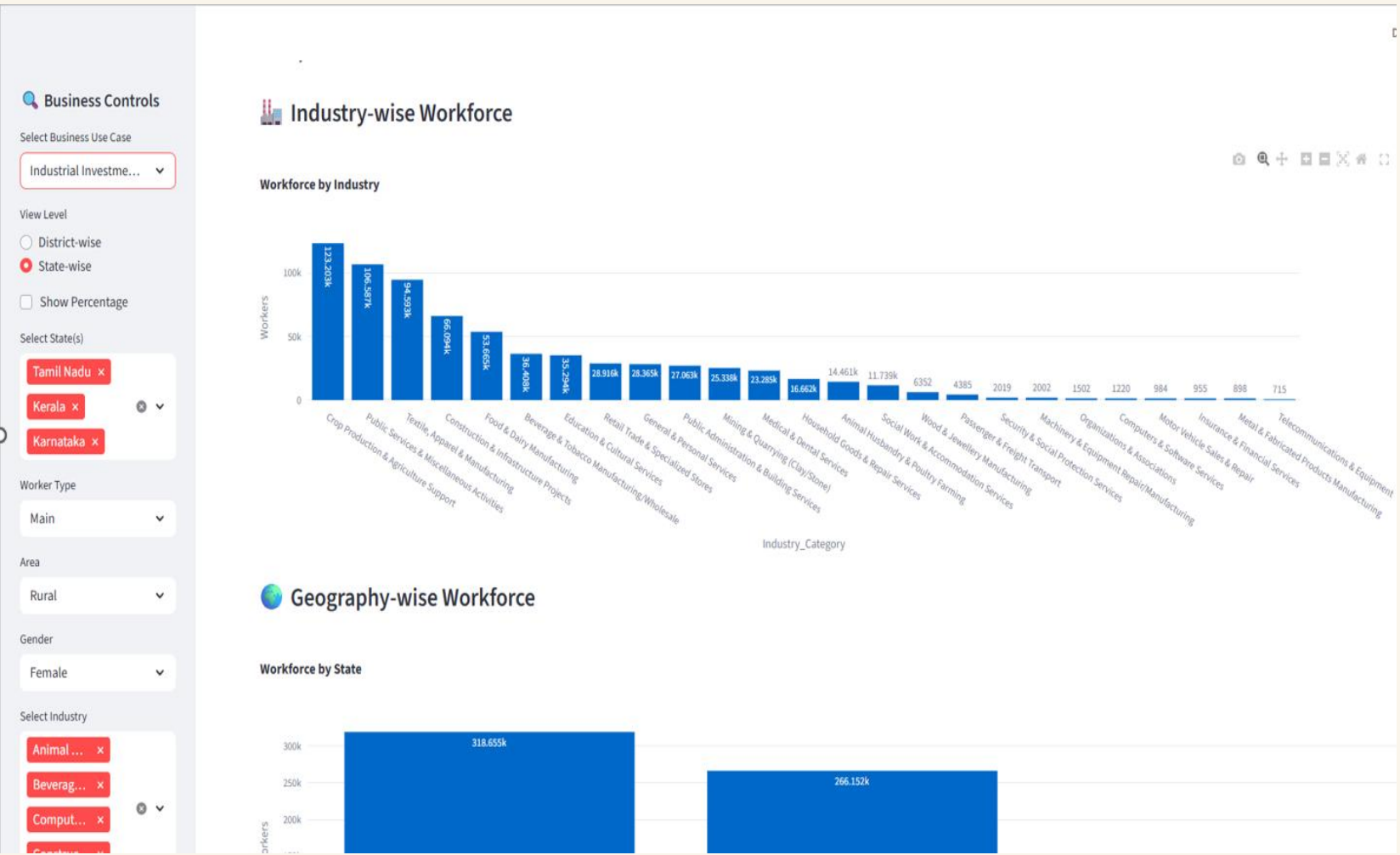
Visual Insights from Streamlit  
Dashboard

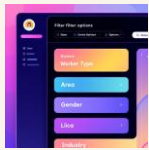
Presented by Muthu Sailaja



# App Overview: Analyzing Workforce Distribution

*This Streamlit dashboard provides comprehensive analysis of workforce distribution across various industries and geographies. It's designed to offer critical insights for policy-making and business strategies.*



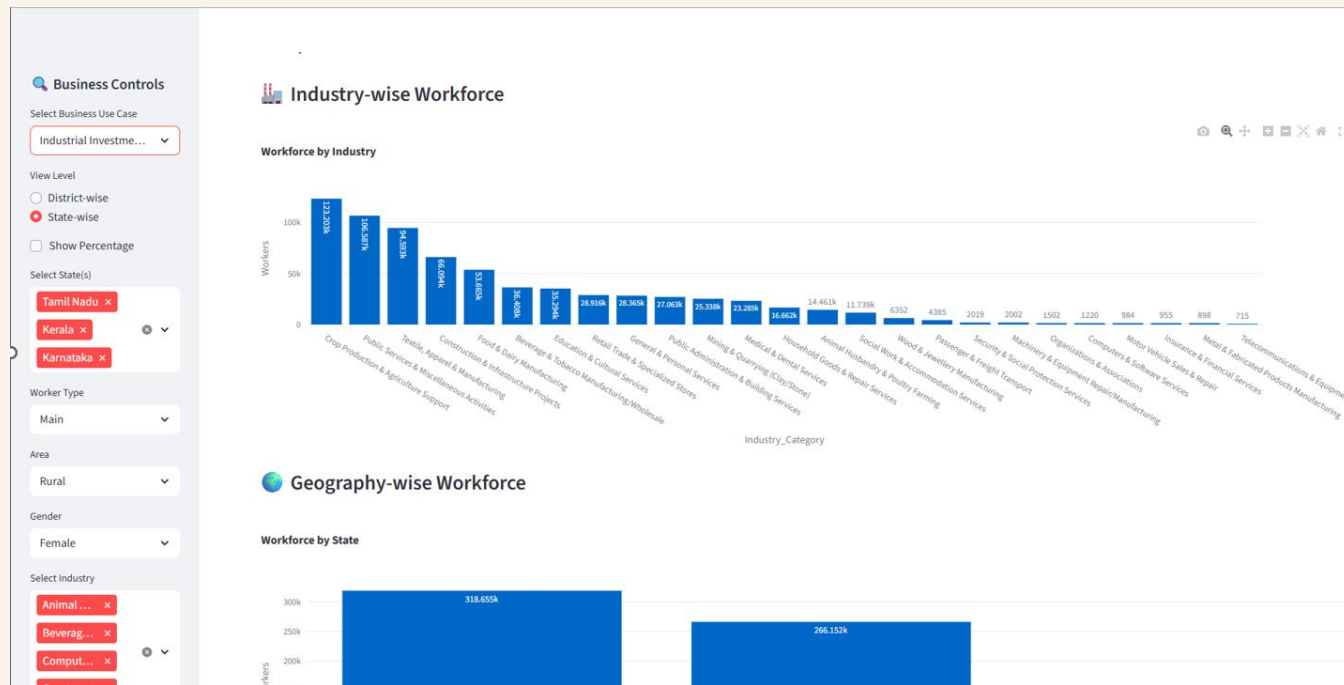


# Interactive Controls for Deep Dives

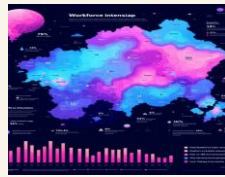
*Our interactive filters empower users to drill down into specific data points. Easily refine your analysis by selecting:*

- *Geography (State, District, Area)*
- *Worker Type*
- *Gender*
- *Industry*

*This granular control ensures tailored insights for every query.*

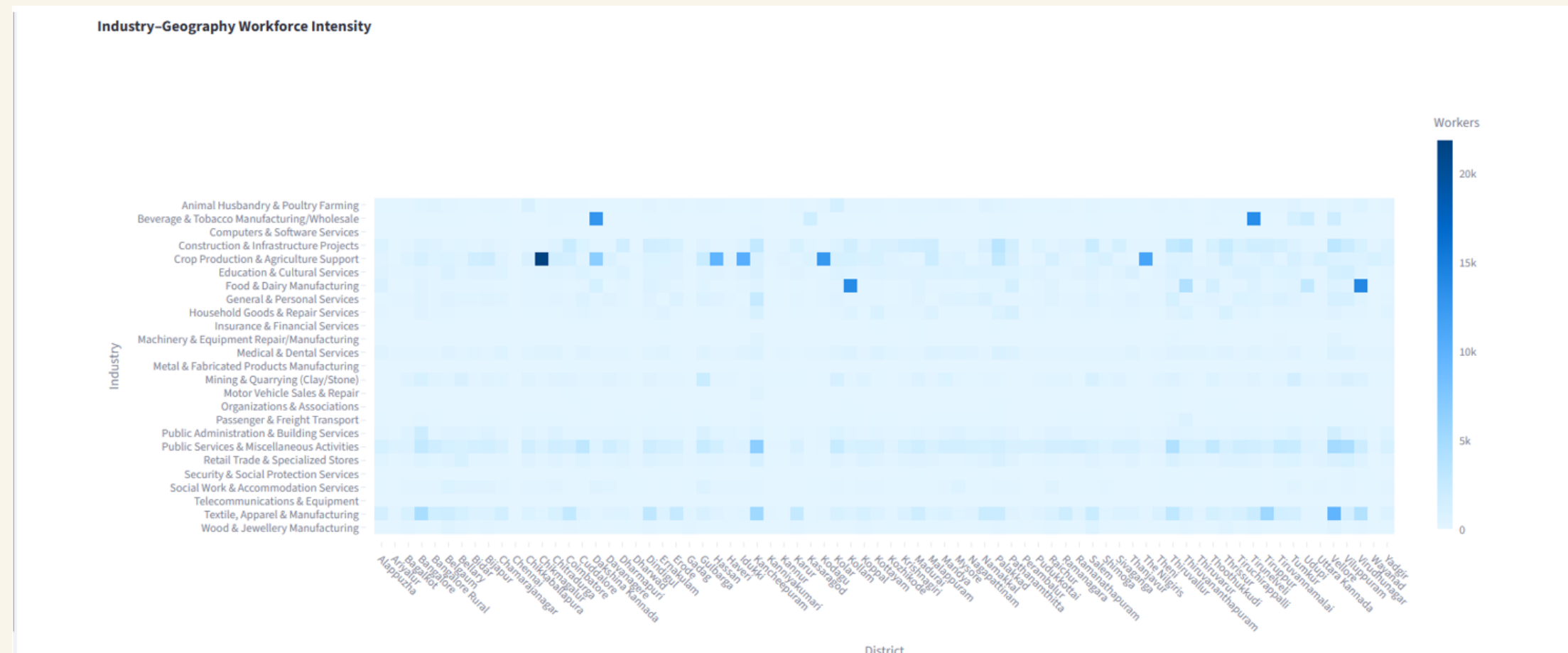






# Industry vs. Geography Heatmap

*The heatmap visualization quickly highlights workforce intensity across different industries and geographical regions. Darker areas indicate higher concentrations, revealing key employment hubs and sector dominance.*

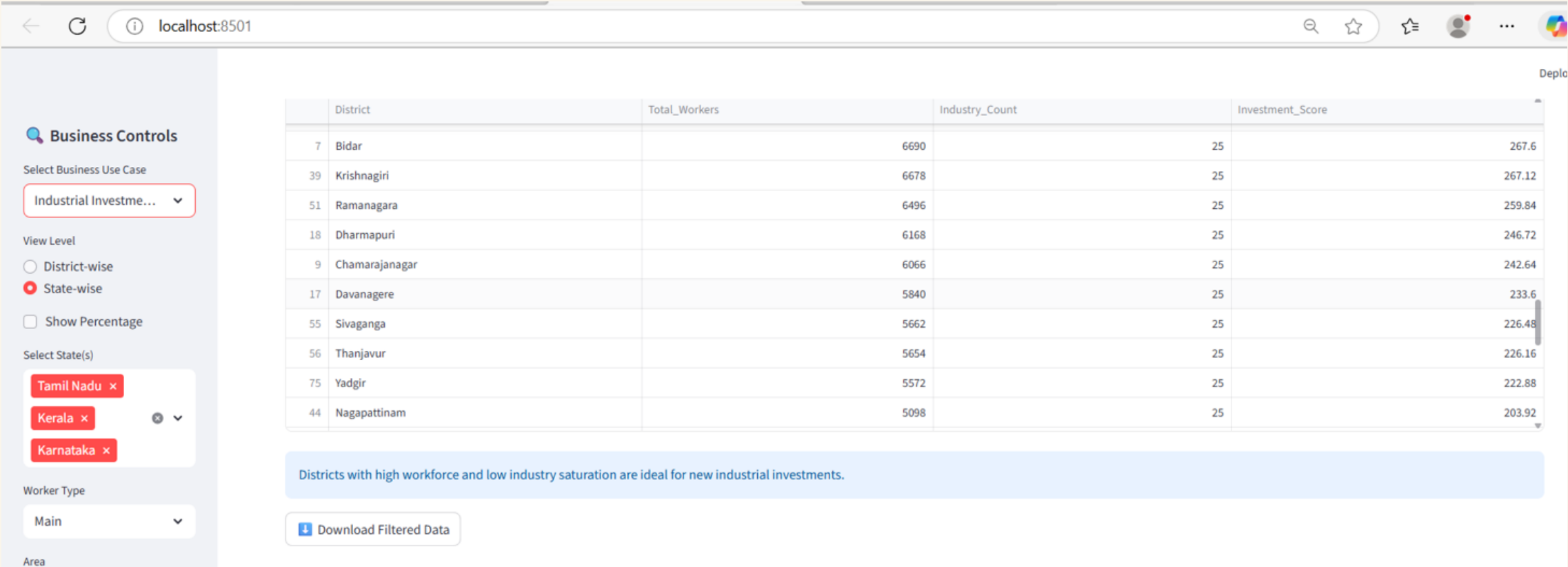




# Key Business Use Cases

## Industrial Investment Planning

*Identify optimal regions for new industrial investments based on existing workforce data and potential for growth.*





# Key Business Use Cases

## Skill Gap Analysis

*Assess the diversity of the workforce versus industry demands to pinpoint critical skill shortages.*

Select State(s)

Tamil Nadu ×

Karnataka × ×

Kerala ×

Select District(s)

Alappuzha ×

Ariyalur ×

Bagalkot × ×

Bangalore ×

Worker Type

Main ▼

Area

Rural ▼

Gender

Female ▼

🎓 Skill Gap Analysis

	District	Industry_Category	Count
21	Alappuzha	Social work & Accommodation Services	106
22	Alappuzha	Telecommunications & Equipment	20
23	Alappuzha	Textile, Apparel & Manufacturing	1352
24	Alappuzha	Wood & Jewellery Manufacturing	24
25	Ariyalur	Animal Husbandry & Poultry Farming	72
26	Ariyalur	Beverage & Tobacco Manufacturing/Wholesale	0
27	Ariyalur	Computers & Software Services	8
28	Ariyalur	Construction & Infrastructure Projects	84
29	Ariyalur	Crop Production & Agriculture Support	42
30	Ariyalur	Education & Cultural Services	234
31	Ariyalur	Food & Dairy Manufacturing	26

High workforce but limited industry diversity indicates the need for skill development programs.

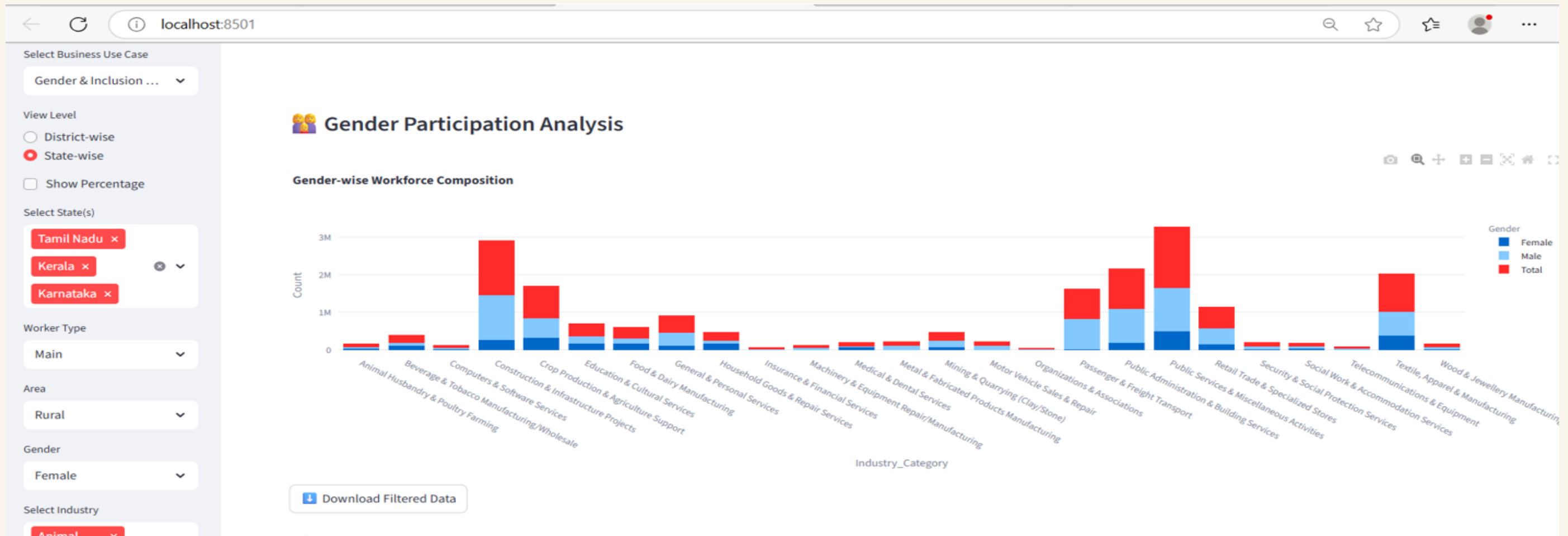
Download Filtered Data



# Key Business Use Cases

## Workforce & Industry Diversity

*Analyze the distribution of the workforce across various industries to understand sector-specific employment trends and identify areas for diversification or specialization.*





# Key Business Use Cases

## Industry Dependency Risk Assessment

*Evaluate the risk of over-reliance on single industries within specific regions. This table helps in strategizing for economic resilience and diversification.*

Select Business Use Case

Industry Depend... | v

View Level

☐ District-wise

☒ State-wise

☐ Show Percentage

Select State(s)

Tamil Nadu x

Kerala x

Karnataka x

Worker Type

Main v

Area

Rural v

Gender

Female v

State

til Nadu

nataka

Industry Dependency Risk

	District	Industry_Category	Count	Share
304	Chikmagalur	Crop Production & Agriculture Support	21864	0.8513
629	Hassan	Crop Production & Agriculture Support	9618	0.6514
679	Idukki	Crop Production & Agriculture Support	10310	0.7278
829	Kodagu	Crop Production & Agriculture Support	12582	0.8692
881	Kollam	Food & Dairy Manufacturing	13838	0.6411
1429	The Nilgiris	Crop Production & Agriculture Support	11366	0.8781

Districts heavily dependent on a single industry are economically vulnerable.

Download Filtered Data

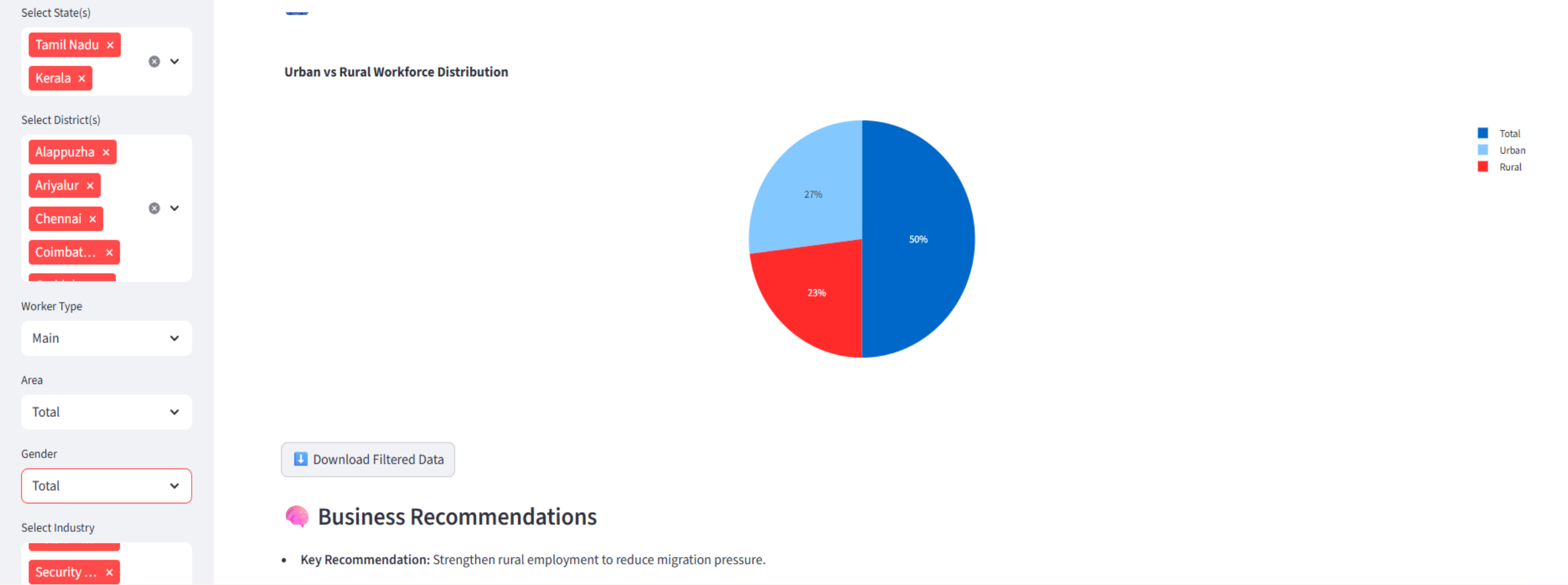




# Key Business Use Cases

## Urbanization & Migration Patterns

*This pie chart illustrates the impact of urbanization and migration on workforce distribution, offering insights into population shifts and their effects on regional labor markets.*





# Business Recommendations

## → Promote Industries

*Focus on industries in high-workforce, low-saturation districts to maximize growth.*

## → Skill Development

*Launch targeted skill development programs to address identified gaps in the workforce.*

## → Improve Female Participation

*Implement initiatives to enhance female workforce participation across all sectors.*

## → Encourage Diversification

*Foster industry diversification to mitigate dependency risks and build economic resilience.*

## → Strengthen Rural Employment

*Develop strategies to boost employment opportunities in rural areas, reducing urban migration pressure.*