



# Monitoring Data Pet Adoption using Grafana

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# Introduction

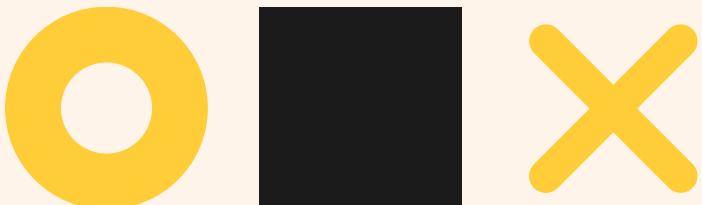
Since 2016, I have been providing technical support, assisting users with device maintenance and hardware used within the company. Some of the devices I have supported include Bostex, Nitgen, and centralized printers like Sharp. Furthermore, I have been involved in managing Microsoft Office 365 users.

After finishing my studies, I transitioned into a new role as a technical writer. Here, I developed documentation for the HR project system, which encompassed user guides and project support documents crucial for effective client communication.

In 2021, I continued my journey as a technical writer, focusing specifically on DevOps data. My duties included producing documentation for various projects at Danone, particularly working on pipeline books for both DEV and PROD environments. Additionally, I created user guides and flowcharts to delineate existing business processes.

However, my interest pivoted towards data engineering as I recognized the vast potential of data-driven decision-making for large companies. Subsequently, I chose to deepen my knowledge in this domain. Presently, I am enhancing my skills and preparing for a career transition as a data engineer through participation in Boothcamp.

To showcase my technical prowess, you can explore my GitHub repository where I regularly share data engineering-related projects. My skill set includes communication, understanding business processes, data ingestion, analytics, Python, and SQL.



# Goals

For Today's digital age, monitoring and analyzing data are crucial for understanding trends and making informed decisions. This project focuses on monitoring pet adoption data using Grafana, a powerful tool for visualizing and analyzing metrics. By leveraging Grafana's capabilities, we can track various metrics related to pet adoption, such as adoption rates, time spent in shelters, adoption fees, and more.





# Objectives

1. Real-time Monitoring: Utilize Grafana to monitor real-time updates on pet adoption metrics.
2. Visualization: Create interactive dashboards to visualize adoption trends, including geographical distribution, age preferences, and adoption likelihood.
3. Data Analysis: Perform in-depth analysis to identify patterns and correlations within the adoption data.
4. Performance Tracking: Monitor shelter efficiency metrics like average time pets spend in shelters before adoption.



# Data Source

The project utilizes a comprehensive dataset (`pet_adoption_data.csv`) from kaggle.

containing fields such as PetID, PetType, Breed, Age in Months, Color, Size, Weight (in kg), Vaccination Status, Health Condition, Time in Shelter (days), Adoption Fee, Previous Owner History, and Adoption Likelihood.

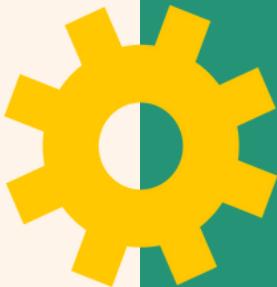
# Tools Equipment

Docker

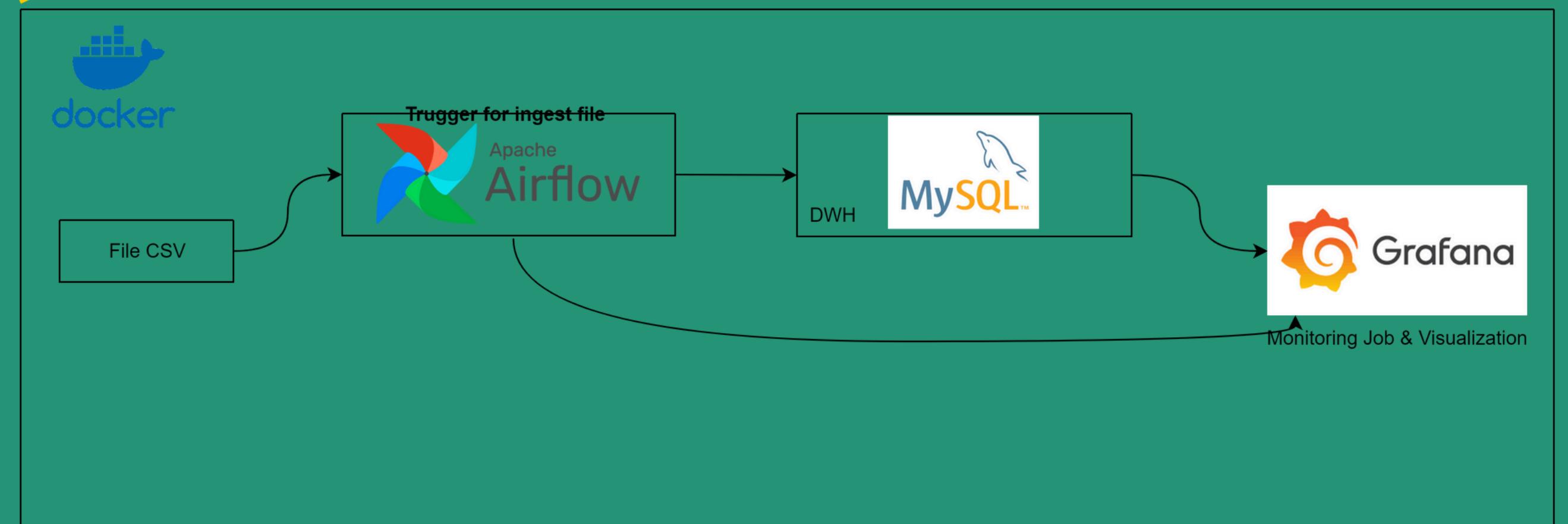
Dbeaver

Grafana

Collab for visualization

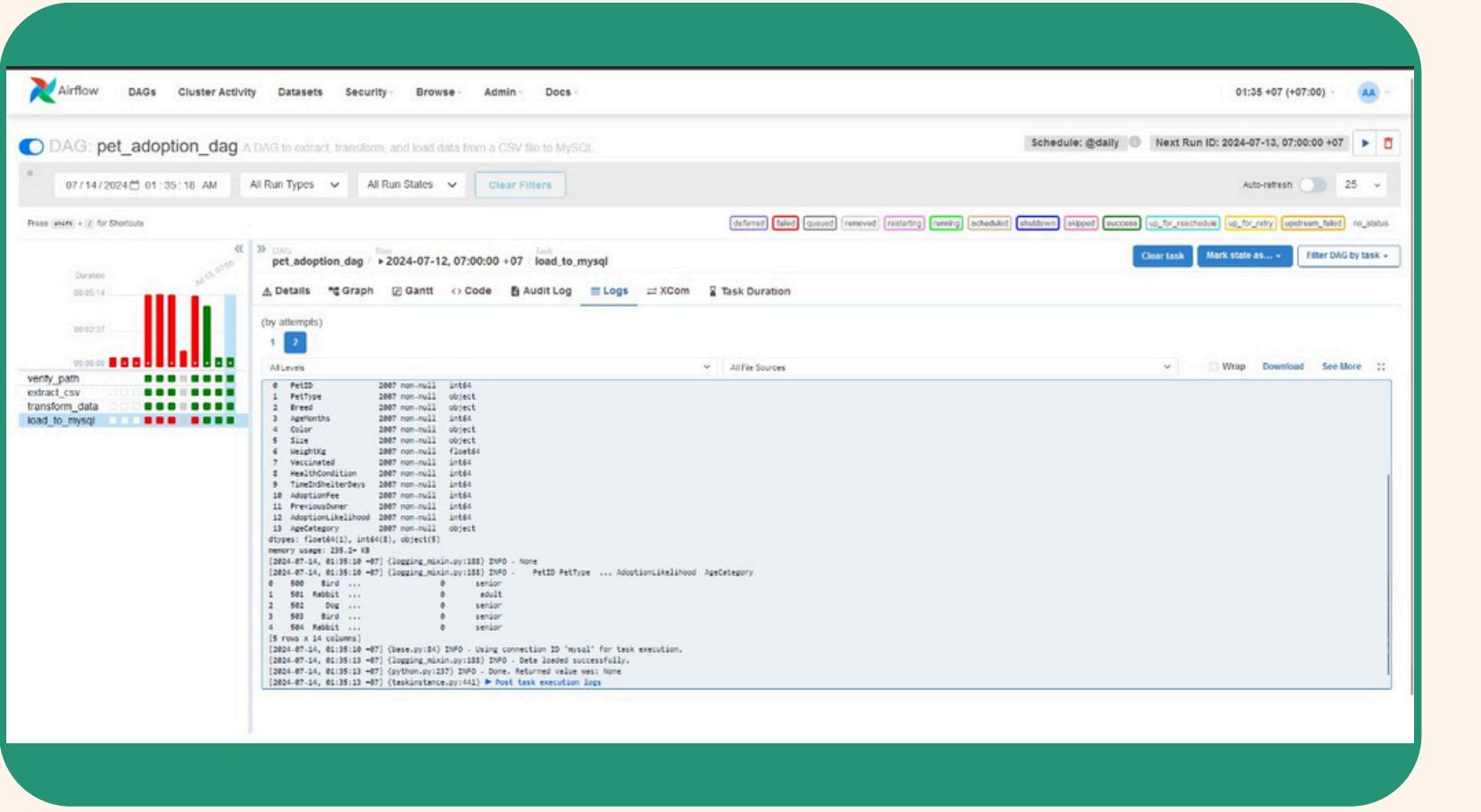
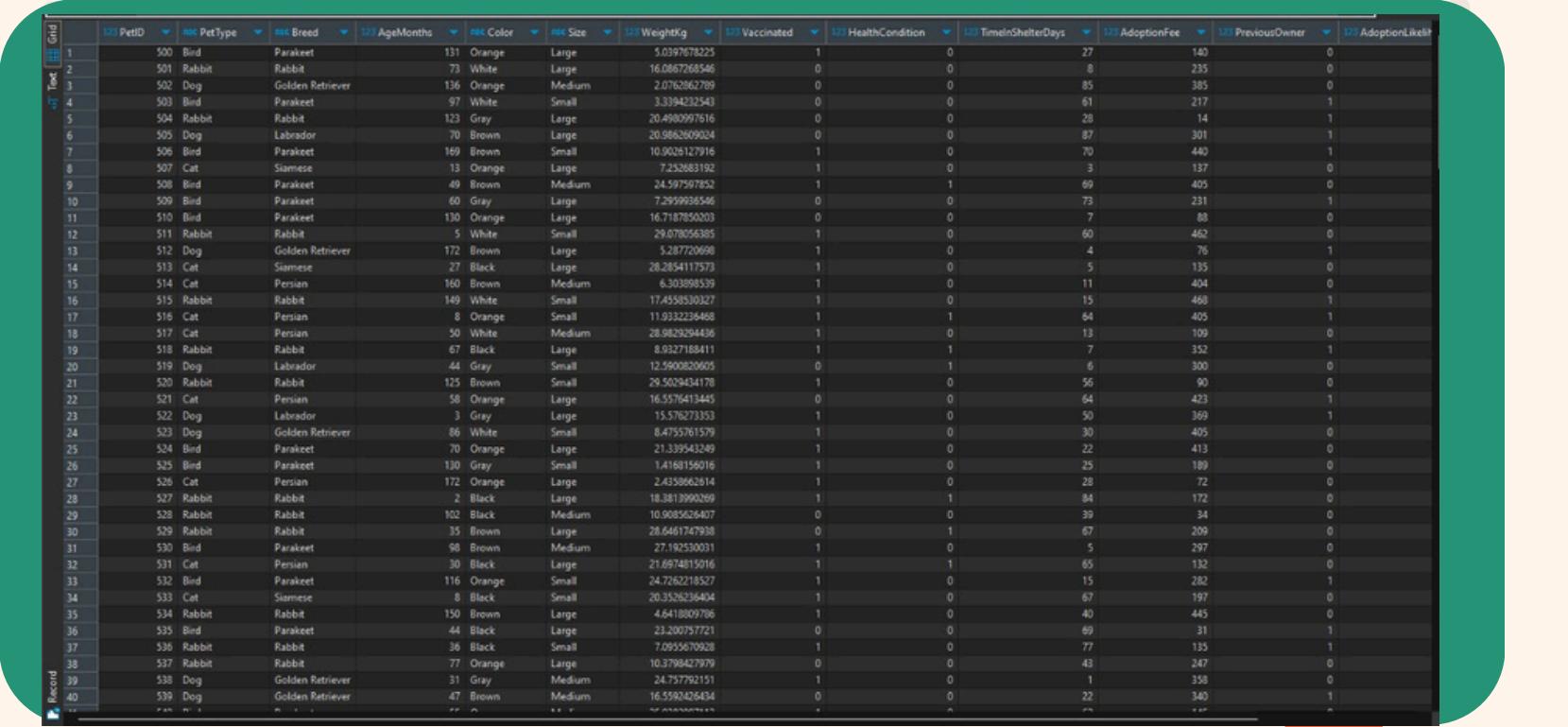


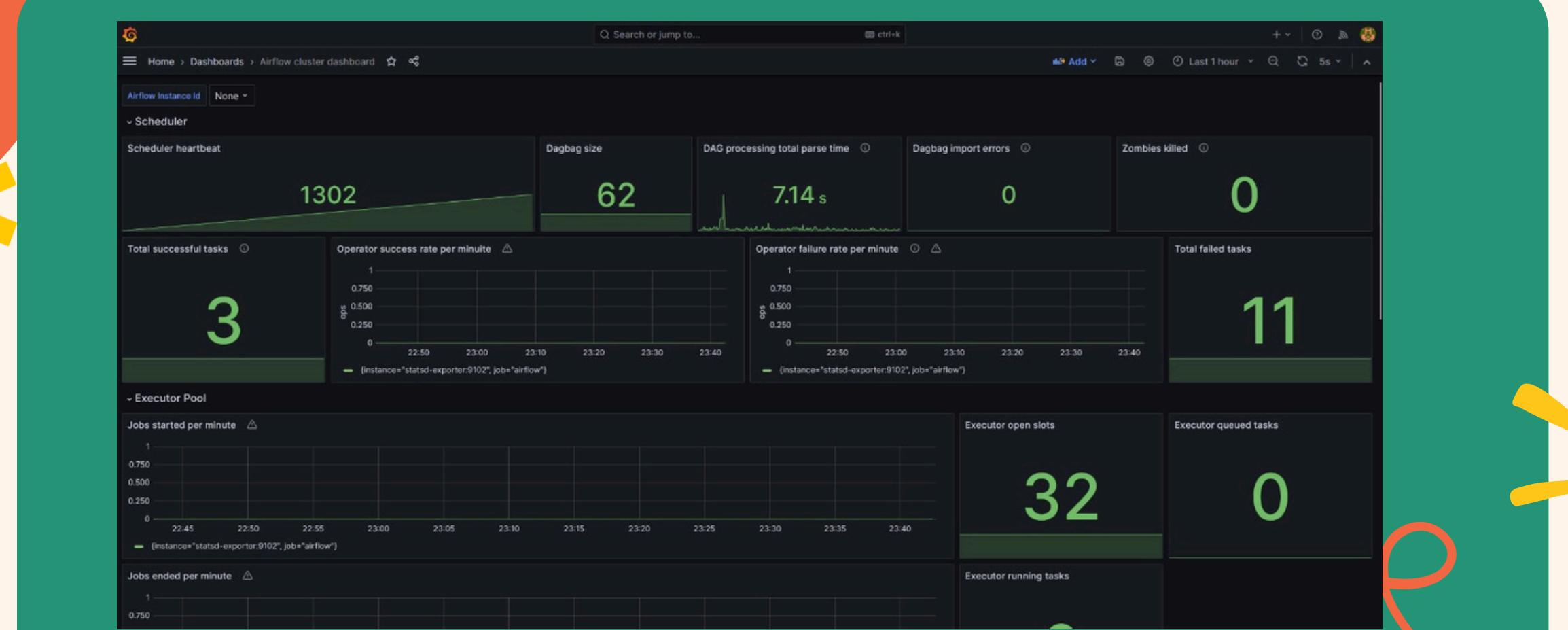
# Infrastructure



# RESULTS







# Conclusion

Conclusion: By implementing Grafana for monitoring pet adoption data, this project aims to provide shelters, animal welfare organizations, and policymakers with actionable insights to improve adoption processes, optimize resource allocation, and ultimately enhance the welfare of animals in need.

## Future Directions:

Future enhancements could include predictive analytics for adoption trends, integrating additional data sources for enriched analysis, and expanding dashboard functionalities to include public engagement metrics.

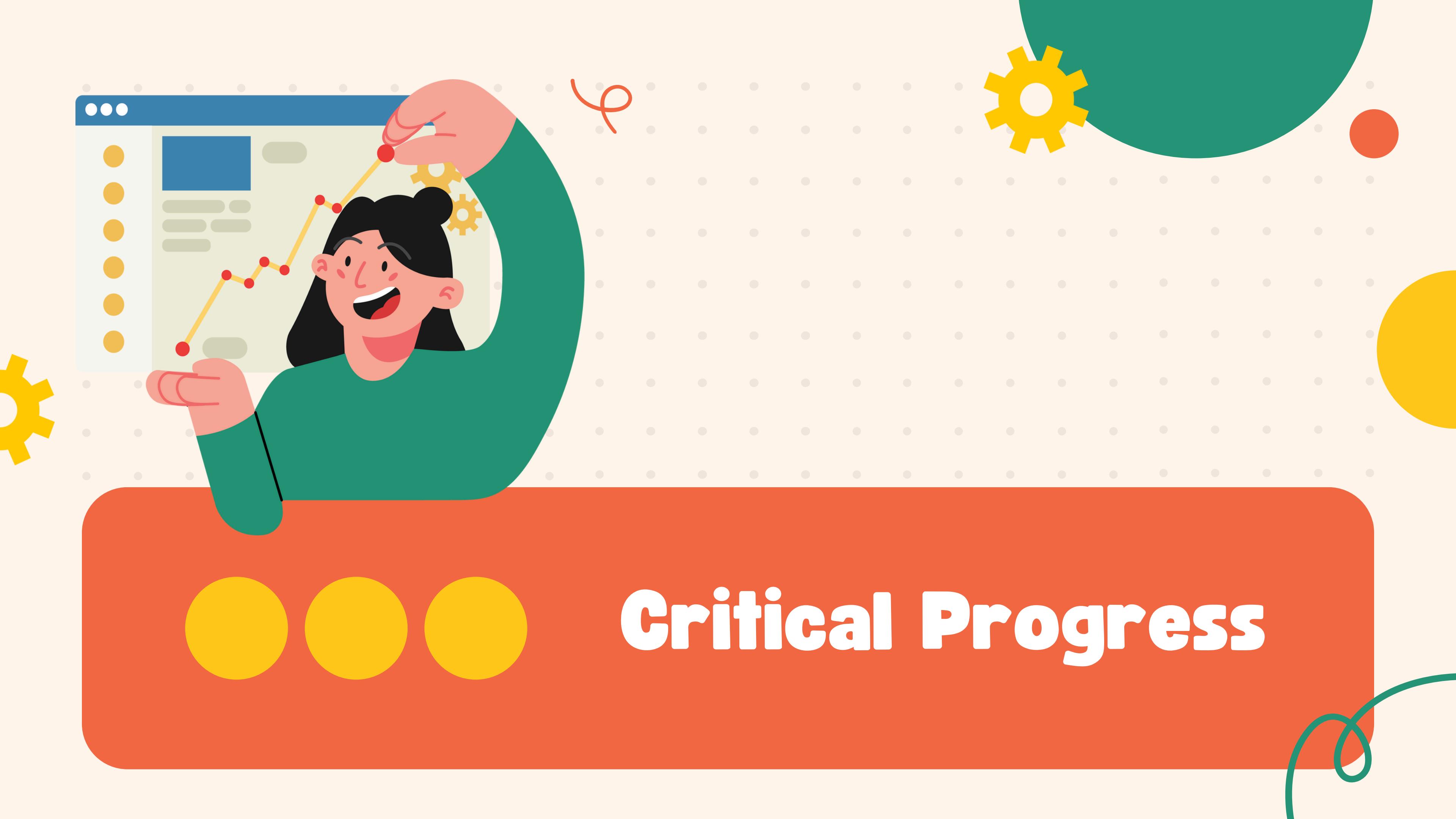
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# Thank You

I hope can useful my  
knowledge from this  
presentation. Good luck!



# Critical Progress

