



Monitoring Data Pet Adoption using Grafana

Indah Permata Wulandari

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.

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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.



MY EDUCATION

**Universitas Mercu Buana (2021) -
Information System**

**SMK Angkasa 2 Tangerang (2016) -
Computer Network Engineering**



Experience

**Start from Technical Support Specialist,
Then switching career to Technical
Writer**

Hi Folks !! Indah's here

this a short of story my experience

I have a strong background in technical support and technical writing. For [5] years, I worked as a Technical Support Specialist, where I solved complex technical issues and provided excellent customer support. This experience honed my problem-solving skills, effective communication, and deep understanding of technology.

After that, I switched my career as a Technical Writer, where I could leverage my technical knowledge to create clear and understandable documentation. I have experience writing various types of documentation, including user guides, technical manuals, and knowledge base articles. I enjoy collaborating with different teams to ensure the accuracy and usefulness of the documentation I create.

With a combination of technical support experience and strong writing skills, I am ready to make a significant contribution in my role as a Technical Writer.



Overview

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.

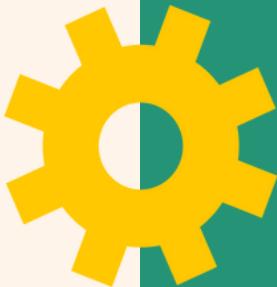
Tools Equipment

Docker

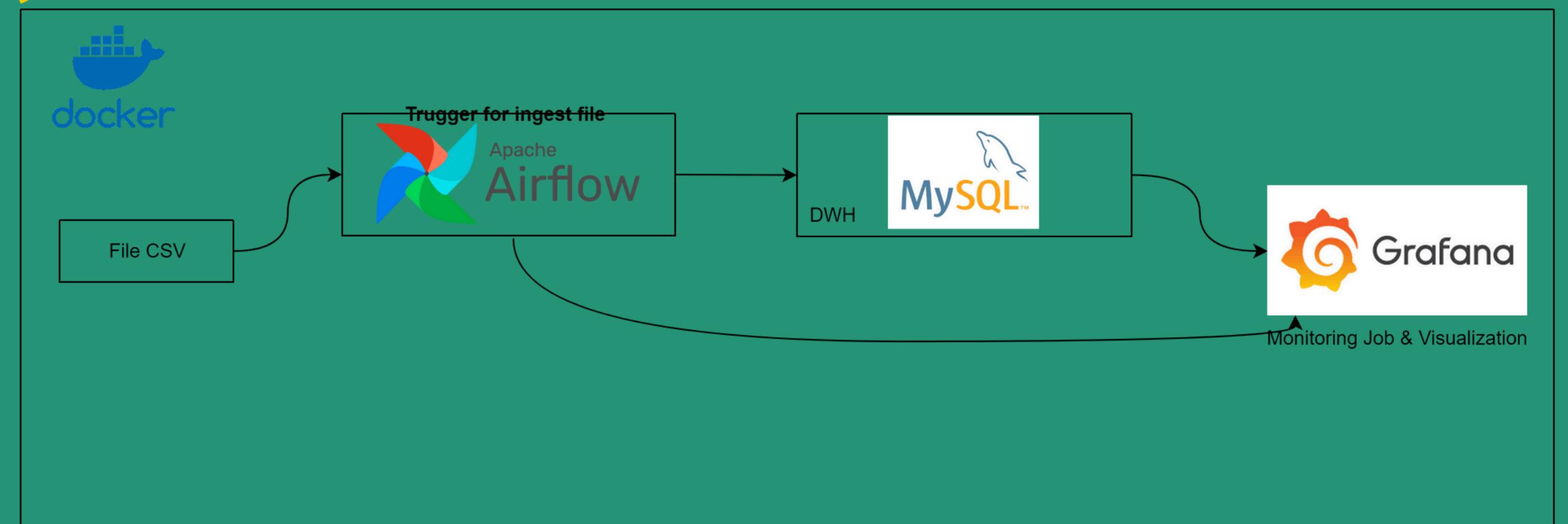
Dbeaver

Grafana

Collab for visualization

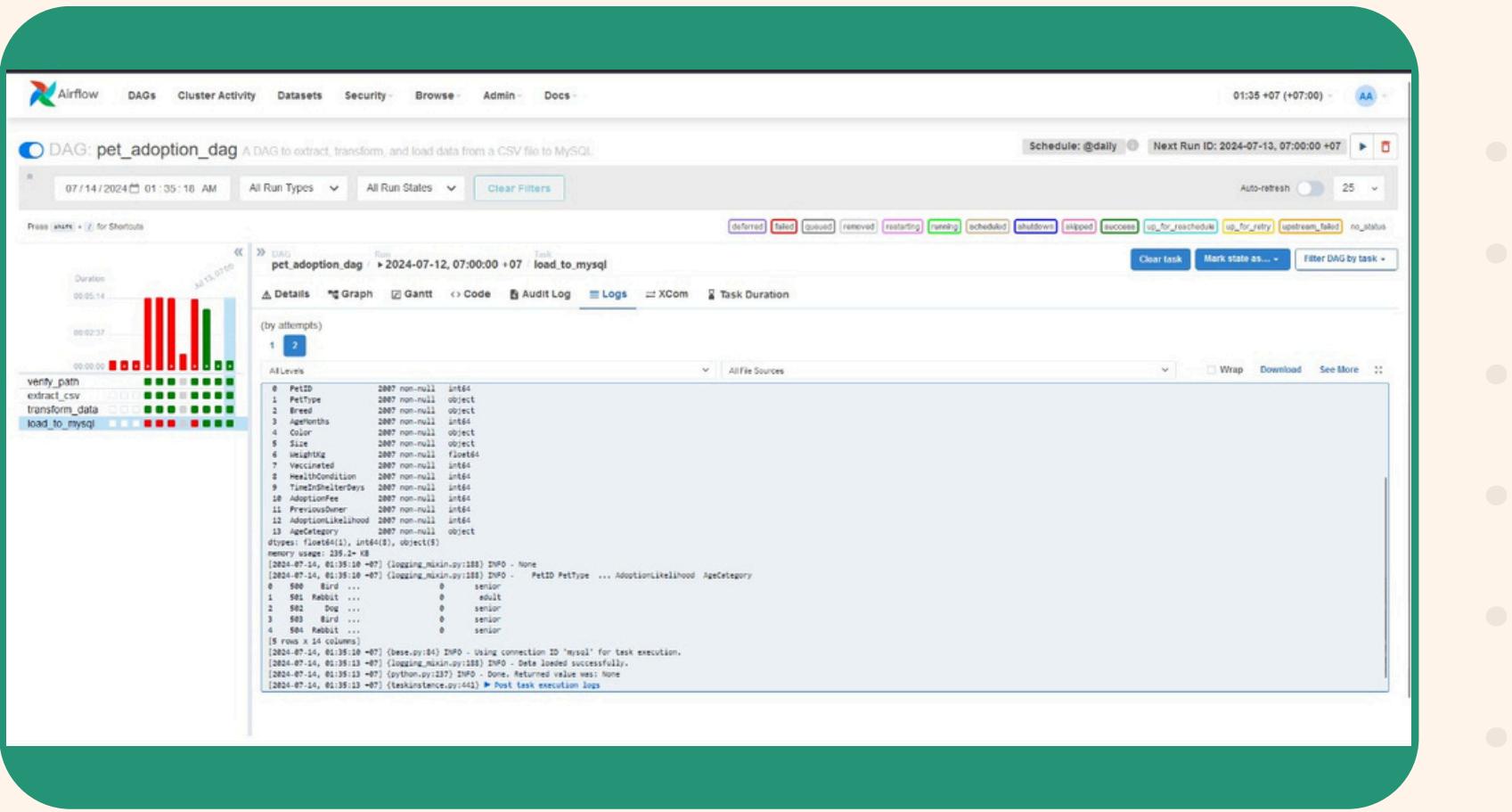


Infrastructure



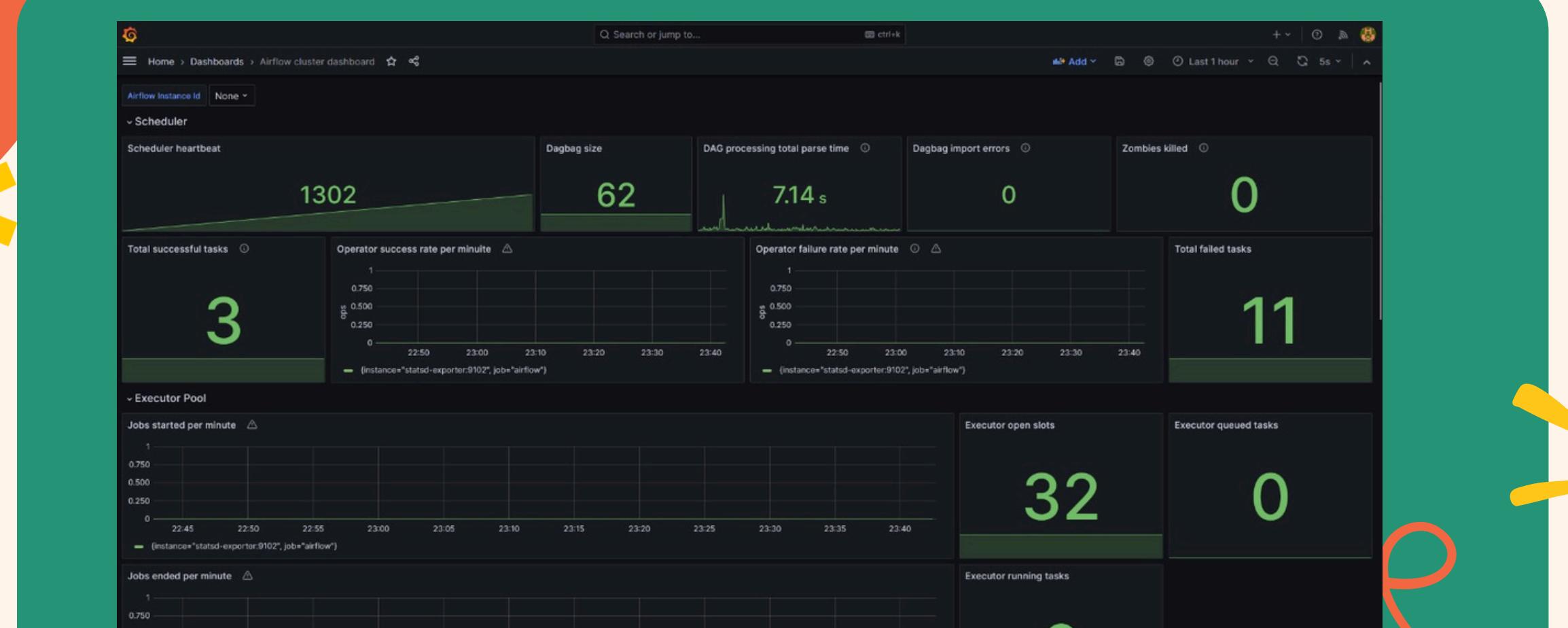
RESULTS





	PetID	PetType	Breed	AgeMonths	Color	Size	Weightkg	Vaccinated	HealthCondition	TimeInShelterDays	AdoptionFee	PreviousOwner	AdoptionLikelihood
1	500	Bird	Parakeet	131	Orange	Large	5.0397678225	1	0	27	140	0	
2	501	Rabbit	Rabbit	73	White	Large	16.0867268546	0	0	8	235	0	
3	502	Dog	Golden Retriever	136	Orange	Medium	2.0762862789	0	0	85	385	0	
4	503	Bird	Parakeet	97	White	Small	3.3394225343	0	0	61	217	1	
5	504	Rabbit	Rabbit	123	Gray	Large	20.4980997616	0	0	28	14	1	
6	505	Dog	Labrador	70	Brown	Large	20.9862699204	0	0	87	301	1	
7	506	Bird	Parakeet	169	Brown	Small	10.9038127916	1	0	70	440	1	
8	507	Cat	Siamese	13	Orange	Large	7.252863192	1	0	3	137	0	
9	508	Bird	Parakeet	49	Brown	Medium	24.597597852	1	1	69	405	0	
10	509	Bird	Parakeet	60	Gray	Large	7.299998546	0	0	73	231	1	
11	510	Bird	Parakeet	130	Orange	Large	16.717850203	0	0	7	88	0	
12	511	Rabbit	Rabbit	5	White	Small	29.078056385	1	0	60	462	0	
13	512	Dog	Golden Retriever	172	Brown	Large	5.287720698	1	0	4	76	1	
14	513	Cat	Siamese	27	Black	Large	28.285411753	1	0	5	135	0	
15	514	Cat	Persian	160	Brown	Medium	6.303995339	1	0	11	404	0	
16	515	Rabbit	Rabbit	149	White	Small	17.455853027	1	0	15	468	1	
17	516	Cat	Persian	8	Orange	Small	11.932238468	1	1	64	405	1	
18	517	Cat	Persian	50	White	Medium	28.0829254436	1	0	13	109	0	
19	518	Rabbit	Rabbit	67	Black	Large	8.9237188411	1	1	7	352	1	
20	519	Dog	Labrador	44	Gray	Small	12.5900802065	0	1	6	300	0	
21	520	Rabbit	Rabbit	125	Brown	Small	29.5029434178	1	0	56	90	0	
22	521	Cat	Persian	58	Orange	Large	16.35710413445	0	0	64	423	1	
23	522	Dog	Labrador	3	Gray	Large	15.576273553	1	0	50	369	1	
24	523	Dog	Golden Retriever	66	White	Small	8.475761579	1	0	30	405	0	
25	524	Bird	Parakeet	70	Orange	Large	21.339543249	1	0	22	413	0	
26	525	Bird	Parakeet	130	Gray	Small	1.4168156016	1	0	25	189	0	
27	526	Cat	Persian	172	Orange	Large	2.435862614	1	0	28	72	0	
28	527	Rabbit	Rabbit	2	Black	Large	18.3813990269	1	1	84	172	0	
29	528	Rabbit	Rabbit	102	Black	Medium	10.905626407	0	0	39	34	0	
30	529	Rabbit	Rabbit	35	Brown	Large	28.6465747938	0	1	67	209	0	
31	530	Bird	Parakeet	98	Brown	Medium	27.192530031	1	0	5	297	0	
32	531	Cat	Persian	30	Black	Large	21.6974815016	1	1	65	132	0	
33	532	Bird	Parakeet	116	Orange	Small	24.7262218527	1	0	15	282	1	
34	533	Cat	Siamese	8	Black	Small	20.352626464	1	0	67	197	0	
35	534	Rabbit	Rabbit	150	Brown	Large	4.641889766	1	0	40	445	0	
36	535	Bird	Parakeet	44	Black	Large	23.20757721	0	0	69	31	1	
37	536	Rabbit	Rabbit	36	Black	Small	7.095670928	1	0	77	135	1	
38	537	Rabbit	Rabbit	77	Orange	Large	10.3798427979	0	0	43	247	0	
39	538	Dog	Golden Retriever	31	Gray	Medium	24.757972151	1	0	1	358	0	
40	539	Dog	Golden Retriever	47	Brown	Medium	16.5590426434	0	0	22	340	1	





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

