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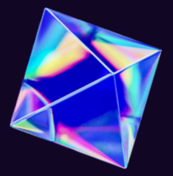
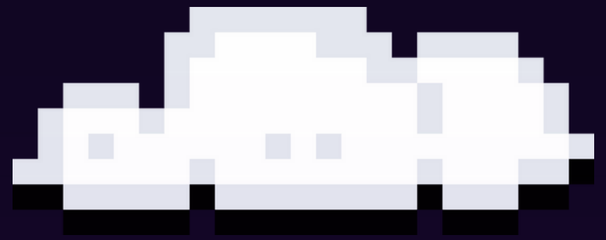
TEAM DETAILS





TEAM NAME : DATA MINERS

PORTFOLIO : DS

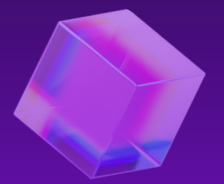
TEAM NUMBER : 20

TEAM LEAD : SHAIK ABDUL MUNAWAR

TEAM MEMBER 1 : Q.M.TAQI UDDIN

TEAM MEMBER 2 : KHIZAR ALMAS KHAN

TEAM MEMBER 3 : MUNEER HUSSAIN



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PROBLEM STATEMENT

Pet owners often face challenges in identifying and managing their pets' health issues due to:

1. Limited understanding of pet-specific health indicators: Generalized health resources fail to account for unique physiological and behavioral traits of pets like dogs and cats.
2. Delayed detection of health issues: Subtle symptoms may go unnoticed until the condition worsens.
3. Lack of actionable and user-friendly insights: Pet owners may struggle to understand or act on health risks without professional guidance.

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PROPOSED SOLUTION

The Pet Health Analysis Project will develop a user-friendly web application that simplifies pet health management. The platform will leverage a combination of pet-specific health data and basic analytics to deliver tailored insights. By focusing on intuitive design and actionable recommendations, the solution aims to empower pet owners with the tools needed to detect and address health concerns early.

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KEY FEATURES

- **Pet-Specific Health Database:** Comprehensive data tailored for dogs and cats.
- **Health Risk Checker:** Predicts potential issues based on symptoms and behaviour.
- **Personalized Recommendations:** Actionable care suggestions for diet, activity, and health.
- **Intuitive User Interface:** Simple platform for easy data input and result visualization.
- **Educational Content:** Resources for better understanding and preventive care.

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TECH STACK

- **FRONTEND:**
- HTML, CSS, JS, Chart.j, React, Bootstrap.
-
- **DATA BASE:**
- Mongo DB
-
- **BACKEND:**
- Flask, Flask-RESTful and AWS.
-
- **CLOUD SERVICES:**
- EC2: Hosting your Flask application.
- S3: For storing images or static files (if necessary).
- AWS Lambda: For executing ML model inference or additional tasks serverlessly.

- DATA SCIENCE:
- Kaggle, Hugging Face, Google Datasets, AWS Data Exchange.
- NumPy, Pandas, Matplotlib or Seaborn
-
- MACHINE LEARNING:
- Classification models & Anomaly detection techniques.
- Frameworks: Scikit-learn, TensorFlow or PyTorch.

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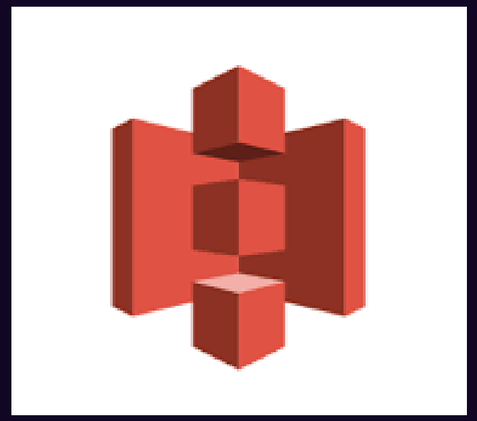
AWS SERVICES USED



AMAZON S3

EC2

AWS LAMBDA

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USE CASES & APPLICATIONS

- **Early Detection and Personalized Care:** Helps pet owners and veterinarians identify health risks early through data analysis, providing tailored recommendations for disease management and prevention.
- **Health Monitoring and Tracking:** Tracks pets' vitals, behaviors, and trends over time, aiding in managing chronic conditions and ensuring overall well-being.
- **Veterinary and Shelter Support:** Streamlines diagnostics for veterinarians and helps shelters prioritize medical care for multiple animals efficiently.
- **Educational and Research Tool:** Offers resources for pet owners to improve their knowledge and provides anonymized data for research into pet health trends.
- **Multi-Pet Management:** Simplifies health record management for households with multiple pets.

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BUSINESS FEASIBILITY

Market Opportunity

- The global pet care market is projected to grow at a CAGR of 7-8% and reach over $325 billion by 2028. Increased spending on pet healthcare is a significant driver.

Target Audience

- Pet owners
- Veterinarians
- Shelters
- NGOs

Revenue Streams

- **Veterinary Partnerships**
- **Data Licensing**
- **Advertisements**