



## **Project Initialization and Planning Phase**

Date	10 July 2024	
Team ID	739851	
Project Title	Beyond The Veil Of Wellness: Machine Learning's Unique Journey In Animal Health Classification	
Maximum Marks	3 Marks	

## **Project Proposal (Proposed Solution) report**

The proposal report aims to the Beyond The Veil Of Wellness: Machine Learning's Unique Journey In Animal Health Classification. This project explores the application of machine learning (ML) to enhance animal health diagnostics. Traditional veterinary methods can be supplemented by ML to improve accuracy and efficiency.

- Develop an ML model to classify various animal health conditions.
- Collect and preprocess diagnostic data.
- Train and validate the model.
- Deploy the model in a practical veterinary diagnostic tool.

Project Overview		
Objective	Explore and document the applications of machine learning in animal health classification to improve diagnosis, treatment, and overall wellness of animals.	
Scope	-Literature review -Data collection -Algorithm development -Case studies -Evaluation of models -Future trends identification	
Problem State	nent	





This project uses machine learning to classify and predict animal health		
conditions by leveraging data from veterinary records, imaging, and IoT		
devices. It aims to develop models that assist veterinarians in making		
accurate and timely diagnoses, enhancing decision-making, and improving		
animal welfare.		
-Improved diagnostic accuracy and speed		
-Early disease detection		
-Personalized treatment plans		
-Reduced healthcare costs		
-Enhanced veterinary education		
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-Literature review and research		
-Data collection and preprocessing		
-Model development and testing		
-Implementation in veterinary practice		
-Continuous evaluation and feedback		
-Integration of diverse data sources		
-High model accuracy		
-User-friendly interfaces		
-Scalability for large datasets and diverse species		
-Real-time analysis		
-Continuous learning and improvement		

## **Resource Requirements**

Resource Type	Description	Specification/Allocation	
Hardware			
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU	
Memory	RAM specifications	8 GB	
Storage	Disk space for data, models, and logs	1 TB SSD	
Software			
Frameworks	Python frameworks	Flask	



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a Veranda Enterprise Libraries	Additional libraries	scikit-learn, NumPy, pandas, matplotlib, seaborn	
Development Environment	IDE	Jupyter Notebook, PyCharm	
Data			
Data	Source, size, format	Kaggle dataset, 614, csv UCI dataset, 690, csv	