



Project Initialization and Planning Phase

Date	10 July 2024	
Team ID	739922	
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			





Description	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.	
Impact	-Improved diagnostic accuracy and speed -Early disease detection -Personalized treatment plans -Reduced healthcare costs -Enhanced veterinary education	
Proposed Solution	on .	
Approach	-Literature review and research -Data collection and preprocessing -Model development and testing -Implementation in veterinary practice -Continuous evaluation and feedback	
Key Features	-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