



Project Initialization and Planning Phase

Date	15 March 2024	
Team ID	SWTID1720437019	
Project Title	Thyroid Classification	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

The proposal study seeks to improve accuracy and efficiency in thyroid classification by utilizing machine learning. It addresses inefficiencies in the system and promises improved operations, lower risks, and happier patient's. Real-time decision-making and a credit model driven by machine learning are important characteristics.

Project Overview		
Objective	The primary objective is to have knowledge on pre-processing the data/transformation techniques on outlier and some visualization concepts and Know fundamental concepts and techniques used for machine learning in thyroid classification.	
Scope	The study uses machine learning to create a more reliable and effective method, thoroughly evaluating and improving the thyroid classification procedure.	
Problem Stateme	ent	
Description	Addressing inaccuracies and inefficiencies in the current thyroid classification system adversely affects operational efficiency and customer satisfaction.	
Impact	Solving these issues will result in improved operational efficiency, reduced risks, and an overall enhancement in the lending process, contributing to patient satisfaction and organizational success.	
Proposed Solutio	n	

Approach	Employing machine learning techniques to analyze and predict creditworthiness, creating a dynamic and adaptable thyroid classification.
Key Features	Implementation of a machine learning-based credit assessment model





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		
Libraries	Additional libraries	scikit-learn, pandas, NumPy, matplotlib		
Development Environment	IDE, version control	Jupyter Notebook, Git		
Data				
Data	Source, size, format	Kaggle dataset, 614, csv UCI dataset, 690, csv		