Project Initialization and Planning Phase

Date	July, 2024
Team ID	739656
Project Title	Zombie detector using Machine Learning
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

The concept of zombies, though fictional, captivates the imagination and serves as a metaphor for various real-world threats. The Zombie Detector project aims to develop a system capable of identifying "zombie-like" behaviors in a simulated environment. This could include detecting erratic movement patterns, unusual physiological signs, or specific auditory/visual cues.

Project Overview	
Objective	Enhance understanding of pattern recognition and anomaly detection. Create a platform for testing and developing advanced machine learning algorithms. Provide a novel approach to understanding crowd dynamics and behavioral analysis.
Scope	This project enables the learner to understand the zombie detection during the zombie apcolyes
Problem Statement	
Description	The Zombie Detector project aims to create an innovative system capable of identifying "zombie-like" behaviors in a simulated environment. The system will use a combination of sensors, cameras, and machine learning algorithms to detect erratic movement patterns, unusual physiological signs, and specific auditory/visual cues indicative of such behaviors.
Impact	Scientific Contribution: Advance the fields of machine learning, pattern recognition, and behavioral analysis. Practical Applications: Improve security systems by detecting abnormal behaviors in real-time. Educational Value: Serve as a case study for interdisciplinary research combining computer science, engineering, and behavioral sciences.

Proposed Solution	
Approach	By utilizing the advanced analytics tools to analyze and segment customer data effectively.
Key Features	-businesses can improve customer satisfaction and loyalty. -Segmentation provides insights into customer preferences and demands, aiding in the development of new products or customization of existing offerings. -enables businesses to differentiate themselves from competitors by offering unique value

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, seaborn, matplotlib
Development Environment	IDE, version control	Jupyter Notebook, VS code
Data		
Data	Source, size, format	Kaggle dataset, 614, csv