

## Project Initialization and Planning Phase

Date	15 March 2024
Team ID	SWTID1720333657
Project Name	Wce Curated Colon Disease Classification Using Deep
Maximum Marks	3 Marks

### Define Problem Statements :

Current diagnostic methods for colon diseases, which heavily rely on physician interpretation of colonoscopy images, exhibit inconsistencies and inaccuracies. This can lead to missed diagnoses of critical conditions, particularly early-stage cancers, ultimately delaying treatment and potentially compromising patient outcomes. Additionally, limitations in diagnostic accuracy can necessitate unnecessary biopsies and procedures, causing discomfort for patients and incurring unnecessary costs for the healthcare system. Furthermore, the time-consuming nature of manual image analysis creates inefficiencies in clinical workflows, hindering timely decision-making and impacting the overall quality of patient care. Therefore, a novel and more robust approach is urgently needed to address these challenges. By harnessing the power of deep learning, we propose the development of a more accurate and efficient system for colon disease classification, with the ultimate goal of improving patient care, streamlining clinical workflows, and reducing healthcare costs.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a healthcare professional.	improve the accuracy and efficiency of my colonoscopy diagnoses.	the increasing number of colonoscopies I perform can be time-consuming.	the workload for gastroenterologists is growing, and time constraints can impact the thoroughness of examinations.	empowered to potentially improve the efficiency and accuracy of my colonoscopy diagnoses.
PS-2	patient with a family history	catch any potential	I'm anxious	healthcare costs can be a	hopeful about the possibility of

	of colon cancer.	colon diseases early.	s about the potential cost of a colonoscopy and any additional diagnostic procedures.	significant burden, especially for those without comprehensive health insurance.	catching any potential colon diseases early at cheaper rates.
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