

## Initial Project Planning Report

Date	03 August, 2025
Project Name	Anemia Sense: Leveraging Machine Learning For Precise Anemia Recognitions
Maximum Marks	03 Marks

### Project Timeline and Sprint Schedule

Sprint	Functional Requirement (Epic)	User Story #	User Story / Task	Priority	Sprint Start	Sprint End (Planned)
Sprint-1	Data Collection & Preprocessing	AS-1	Collect anemia dataset	High	20/07/2025	22/07/2025
Sprint-1	Data Collection & Preprocessing	AS-2	Import and inspect data	High	20/07/2025	22/07/2025
Sprint-1	Data Collection & Preprocessing	AS-3	Handle missing values	High	20/07/2025	22/07/2025
Sprint-1	Data Collection & Preprocessing	AS-4	Resolve class imbalance	High	21/07/2025	22/07/2025
Sprint-2	Exploratory Data Analysis (EDA)	AS-5	Univariate & bivariate analysis	Medium	23/07/2025	24/07/2025
Sprint-2	Exploratory Data Analysis (EDA)	AS-6	Multivariate analysis (pairplot, heatmap)	Medium	23/07/2025	24/07/2025
Sprint-3	Model Development	AS-7	Split data into train/test sets	High	25/07/2025	26/07/2025
Sprint-3	Model Development	AS-8	Train and evaluate 5+ algorithms	High	25/07/2025	26/07/2025
Sprint-3	Model Development	AS-9	Hyperparameter tuning	Medium	27/07/2025	27/07/2025
Sprint-3	Model Development	AS-10	Compare models & select the best	High	27/07/2025	27/07/2025

Sprint-4	Model Deployment & Web Integration	AS-11	Save best model (pickle)	High	28/07/2025	28/07/2025
Sprint-4	Model Deployment & Web Integration	AS-12	Create Flask backend & HTML templates	Medium	29/07/2025	31/07/2025
Sprint-4	Model Deployment & Web Integration	AS-13	Integrate model and UI, test prediction	High	01/08/2025	02/08/2025
Sprint-4	Documentation & Final Report	AS-14	Write and finalize project report	High	02/08/2025	03/08/2025

## Screenshots

### DATA COLLECTION & PREPARATION

BACKLOG	IN-PROGRESS	REVIEW	COMPLETE
		<div> TSK-279112 AK </div> <div>Collect The Dataset</div> <div>Progress(%): 90</div> <div>Comment</div>	
		<div> TSK-279113 AK </div> <div>Importing The Libraries</div> <div>Progress(%): 90</div> <div>Comment</div>	
		<div> TSK-279114 AK </div>	

### EXPLORATORY DATA ANALYSIS.

### MODEL BUILDING

BACKLOG	IN-PROGRESS	REVIEW	COMPLETE
		<div> TSK-279124 AK </div> <div>Training The Model In Multiple Algorithms</div> <div>Progress(%): 90</div> <div>Comment</div>	
		<div> TSK-279125 AK </div> <div>Testing The Model</div> <div>Progress(%): 90</div> <div>Comment</div>	

### PERFORMANCE TESTING AND HYPER PARAMETER TUNNING