



Data Collection and Preprocessing Phase

Date	9 June 2024
Team ID	SWTID1720112707
Project Title	Anemia Sense: Leveraging Machine Learning For Precise Anemia Recognitions
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

Data Collection Plan Template

Section	Description				
Project Overview	Anemia Sense aims to leverage machine learning techniques to develop a precise anemia recognition model. The project's objective is to utilize key hematological parameters such as Age, MCH, MCHC, MCV, Hemoglobin, and Gender to accurately detect anemia in individuals.				
Data Collection Plan	The data will be collected from the following sources: 1. Public health datasets available online. 2. Hospital and laboratory records (with necessary permissions). 3. Existing medical research databases and journals. 4. Synthetic data generated to supplement training data where real data is insufficient.				
Raw Data Sources Identified	Kaggle				





Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle	Comprehensive health data including hematological parameters from various hospitals.	https://www.kagg le.com/datasets/bi swaranjanrao/ane mia-dataset	CSV	5 kB	Public
Kaggle	Research dataset containing detailed blood test results and diagnoses.	https://www.kagg le.com/datasets/e hababoelnaga/ane mia-types- classification	Excel	22 kB	Private (with access)
Kaggle	Synthetic data generated to balance class distribution and enhance model training.	https://www.kagg le.com/datasets/sa yeemmohammed/ anemia-detection	CSV	3 kB	Private (internal use)
Kaggle	Anemia-specific dataset from a medical research journal.	https://www.kagg le.com/datasets/sa urabhshahane/ane mia-diagnosis- dataset	CSV	8 kB	Public