



Data Collection and Preprocessing Phase

Date	21 June 2025	
Project Title	Arrhythmia Classification with Deep Learning and 2-D ECG Images	
Maximum Marks	2 Marks	

Data Collection Plan & Raw Data Sources Identification Report:

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

Section	Description	
Project Overview	The project aims to develop a deep learning-based solution for automated arrhythmia classification from ECG data. Using a proprietary dataset of 2D spectral images derived from ECG signals, the objective is to build a robust model that accurately classifies different types of arrhythmias, supporting clinicians in timely and effective diagnosis.	
Data Collection Plan	The ECG data was collected internally as part of ongoing clinical operations and levice monitoring. All data was gathered with proper patient consent and in compliance with elevant data privacy regulations. The raw data consists of 2D spectral images (PNG/JPG) generated from ECG ignals, each labeled with the corresponding arrhythmia class by clinical experts. Data is organized in class-wise folders for training and testing. Data is securely stored on the company's internal servers/cloud.	





Raw Data Sources Report:

Source Name	Description	Location/URL/Path	Format	Size	Access Permissions
Internal ECG Dataset	Proprietary ECG spectral images labeled by clinical experts	https://drive.google.com/file/d/16EnEXeHJXmV-8qnfswmrVQ6nyHOwi93D/view?usp=sharing	A zip folder containing the images in PNG format	33.3 MB(zip)	Restricted (internal only)