



Data Collection and Preprocessing Phase

Date	27 th July 2024
Team ID	739919
Project Title	FETAL AI:USING MACHINE LEARNING TO PREDICT AND MONITOR FETAL HEALTH
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

The data collection plan for the Fetal AI system focuses on obtaining high-quality ultrasound images and comprehensive clinical records from partnering hospitals and medical imaging centers. Raw data sources include direct feeds from ultrasound machines and electronic health records, ensuring a continuous and diverse influx of data for robust model training. Key partnerships and standardized data-sharing agreements will be established to facilitate reliable data acquisition and ensure consistency across all data sources.

Data Collection Plan Template

Section	Description				
Project Overview	The Fetal AI project aims to enhance fetal				
	health assessment using machine learning				
	models that analyze ultrasound images and				
	clinical data.				
Data Collection Plan	Collect high-resolution ultrasound images				
	and detailed clinical records from partner				
	hospitals and imaging centers for				
	comprehensive data analysis.				
Raw Data Sources	Data is sourced from direct feeds of				
	ultrasound machines and electronic health				
	record systems to ensure a robust dataset				
	for training and evaluation.				





Raw Data Sources Template

Source Name					Access Permissions
	Description	Location/URL	Format	Size	
Hospital A	High-resolution ultrasound images and associated clinical records from a regional medical center.	Secure internal database	DICOM, CSV	500 GB	Restricted access, NDA required
Imaging Center B	Ultrasound imaging data from prenatal screenings, including patient demographics and outcomes.	https://imagingcenterb.com	JPEG, JSON	250 GB	Requires user authentication
Health Network C	Aggregated electronic health records from multiple clinics, focusing on prenatal care and outcomes.	Internal health network cloud	HL7, XML	1 TB	Permission from health network admin

Open	Publicly	https://data.fetalhealth.org	CSV	100	Open access
Data	available fetal			GB	
Portal	health datasets				
	for training and				
	benchmarking				
	AI models.				