



Data Collection and Preprocessing Phase

Date	7 July 2024
Team ID	739677
Project Title	FetalAI: Using Machine Learning To Predict And Monitor Fetal Health
Maximum Marks	6 Marks

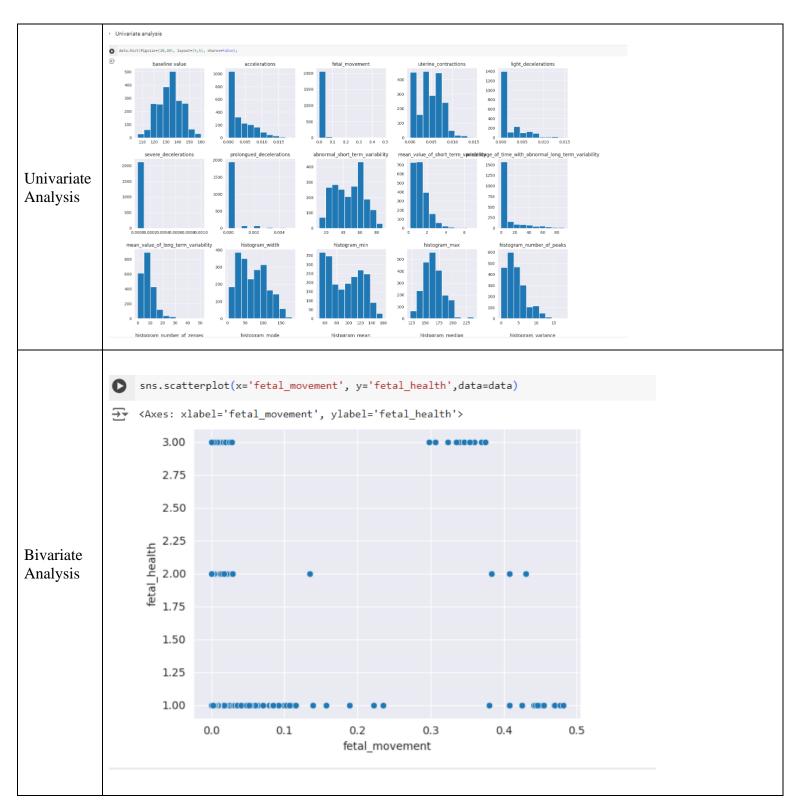
Data Exploration and Preprocessing Template

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	De	scription									
	0	data.describe().T									
Data Overview	⊕										
	23		count	mean	std	min	25%	50%	75%	max	
		baseline value	2126.0	133.303857	9.840844	106.0	126.000	133.000	140.000	160.000	
			2126.0	0.003178	0.003866	0.0	0.000	0.002	0.006	0.019	
		fetal_movement	2126.0	0.009481	0.046666	0.0	0.000	0.000	0.003	0.481	
		uterine_contractions	2126.0	0.004366	0.002946	0.0	0.002	0.004	0.007	0.015	
		light_decelerations	2126.0	0.001889	0.002960	0.0	0.000	0.000	0.003	0.015	
		severe_decelerations	2126.0	0.000003	0.000057	0.0	0.000	0.000	0.000	0.001	
		prolongued_decelerations	2126.0	0.000159	0.000590	0.0	0.000	0.000	0.000	0.005	
		abnormal_short_term_variability	2126.0	46.990122	17.192814	12.0	32.000	49.000	61.000	87.000	
		mean_value_of_short_term_variability	2126.0	1.332785	0.883241	0.2	0.700	1.200	1.700	7.000	
		$percentage_of_time_with_abnormal_long_term_variability$	2126.0	9.846660	18.396880	0.0	0.000	0.000	11.000	91.000	
		mean_value_of_long_term_variability	2126.0	8.187629	5.628247	0.0	4.600	7.400	10.800	50.700	
		histogram_width	2126.0	70.445908	38.955693	3.0	37.000	67.500	100.000	180.000	
		histogram_min	2126.0	93.579492	29.560212	50.0	67.000	93.000	120.000	159.000	
		histogram_max	2126.0	164.025400	17.944183	122.0	152.000	162.000	174.000	238.000	
		histogram_number_of_peaks	2126.0	4.068203	2.949386	0.0	2.000	3.000	6.000	18.000	
		histogram_number_of_zeroes	2126.0	0.323612	0.706059	0.0	0.000	0.000	0.000	10.000	
		histogram_mode	2126.0	137.452023	16.381289	60.0	129.000	139.000	148.000	187.000	
		histogram_mean	2126.0	134.610536	15.593596	73.0	125.000	136.000	145.000	182.000	
		histogram_median	2126.0	138.090310	14.466589	77.0	129.000	139.000	148.000	186.000	
		histogram_variance	2126.0	18.808090	28.977636	0.0	2.000	7.000	24.000	269.000	
		histogram_tendency	2126.0	0.320320	0.610829	-1.0	0.000	0.000	1.000	1.000	
		fetal_health	2126.0	1.304327	0.614377	1.0	1.000	1.000	1.000	3.000	

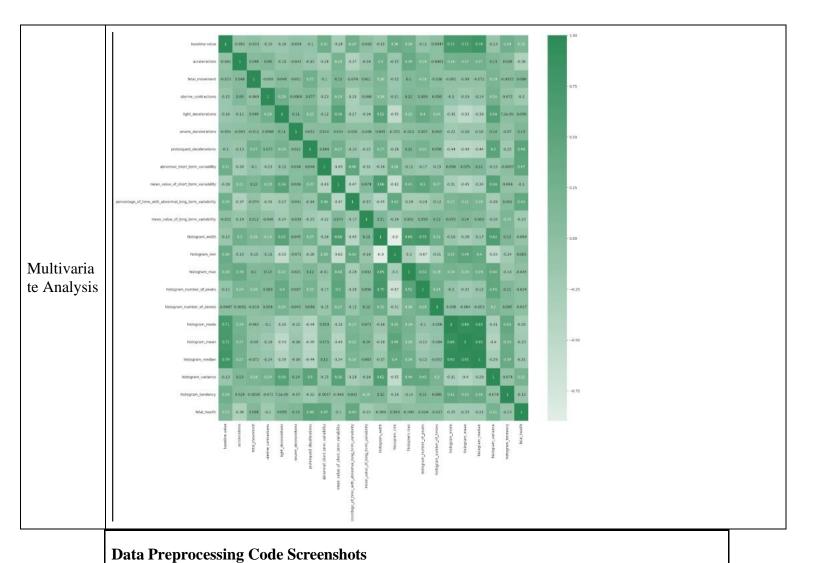












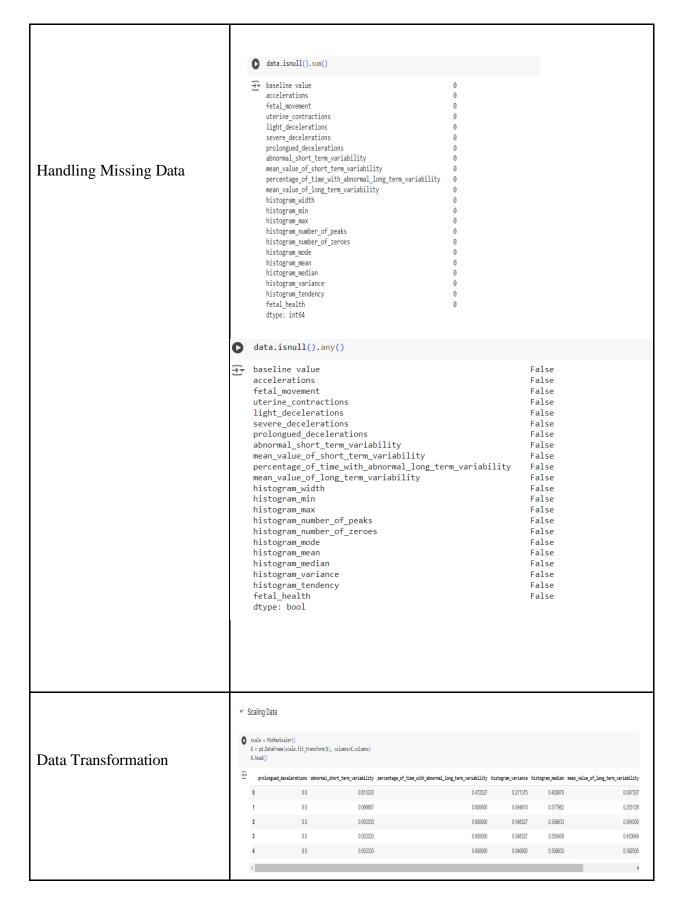
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Feature Engineering	Attached the codes in final submission.
Save Processed Data	-