



Data Collection and Preprocessing Phase

Date	28 June 2024
Team ID	Batch-7
Project Title	A Comprehensive Measure Of Well-Being:A Human Development Using Machine Learning
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.





Section	De	scr	iption	<u>n</u>															
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	1		Unnamed:	Id	HDI Rank	HDI	Life expectancy	Mean years of schooling	Gross national income (GNI) per capita	GNI per capita rank minus HDI rank	Change in HDI rank	Average annual HDI growth 1990-2000		Coefficient of human inequality	in life expectancy	life expectancy		adjusted	in income
ı	7	count	195.000000	195.000000	188.000000	188.000000	190.000000	188.000000	193.000000	188.000000	188.000000	144.000000		151.000000	185.000000	185.000000	160.000000	158.000000	154.000000
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ı		std	56.435804	56.435804	54.435501	0.155153	8.328811	3.098028	19052.801649	17.309425	5.440940	0.762704		10.210353	12.197865	0.190741	14.631437	0.224236	10.511501
ı		min	0.000000	1.000000	1.000000	0.352000	48.900000	1.400000	294.000000	-79.000000	-35.000000	-1.550000		5.300000	2.600000	0.263000	1.400000		
ı		25%	48.500000	49.500000	47.750000	0.577750	65.550000	6.075000	3527.000000	-7.000000	-2.000000	0.425000		10.950000	6.700000	0.524000	6.575000		
ı		50%	97.000000	98.000000	94.500000	0.728500	73.300000	8.650000	10383.000000	4.000000	0.000000	0.760000		20.200000	13.600000	0.707000	17.450000		
Data					139.750000	0.811250	77.000000	11.125000	23394.000000	13.000000	2.000000	1.150000		29.500000	26.100000	0.813000	34.525000		
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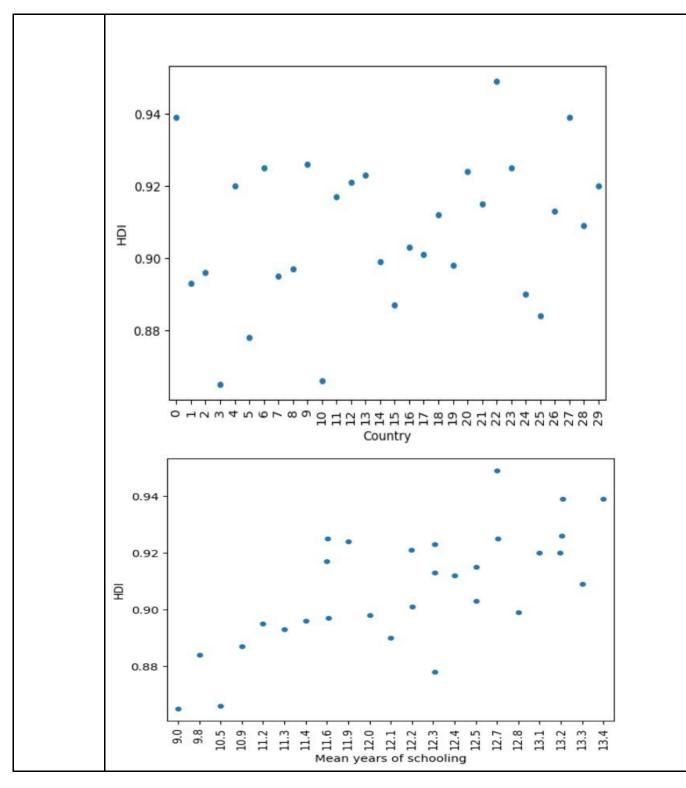




Univariate
Analysis

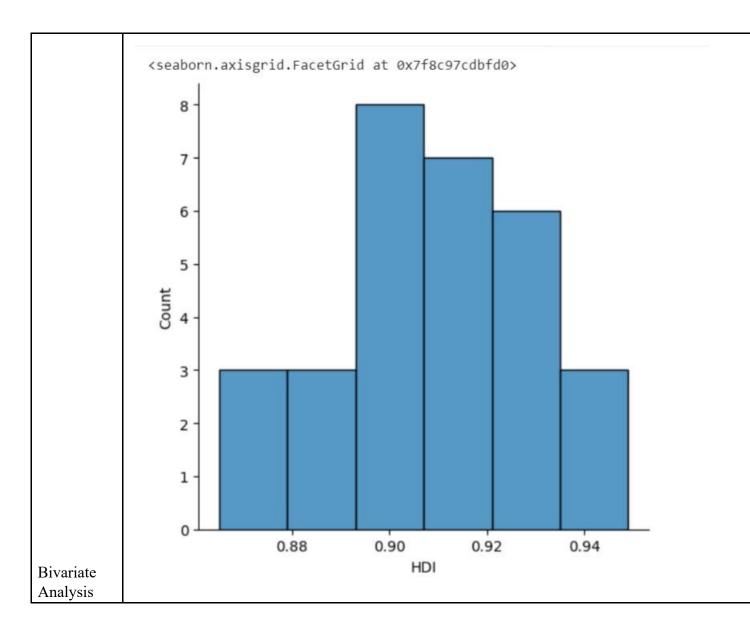






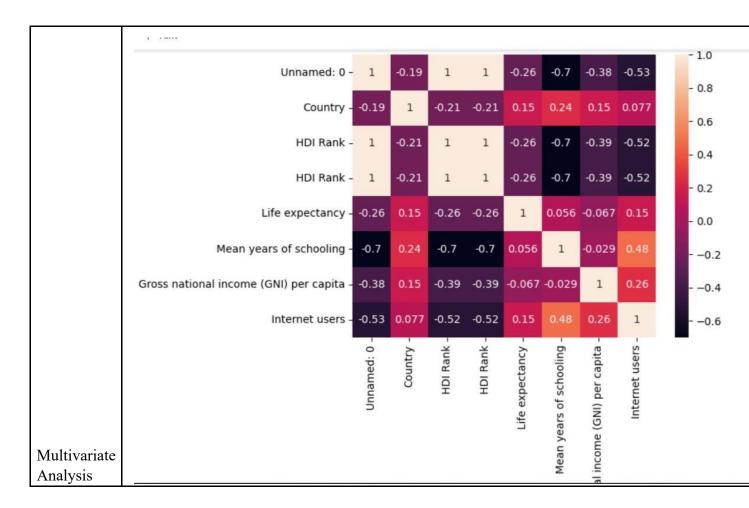












Outliers and Anomalies	-
Data Preproces	ssing Code Screenshots





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