



Data Collection and Preprocessing Phase

Date	10 July 2024
Team ID	739756
Project Title	Unveiling Baldness: Genetic And Environmental Dynamics
Maximum Marks	6 Marks

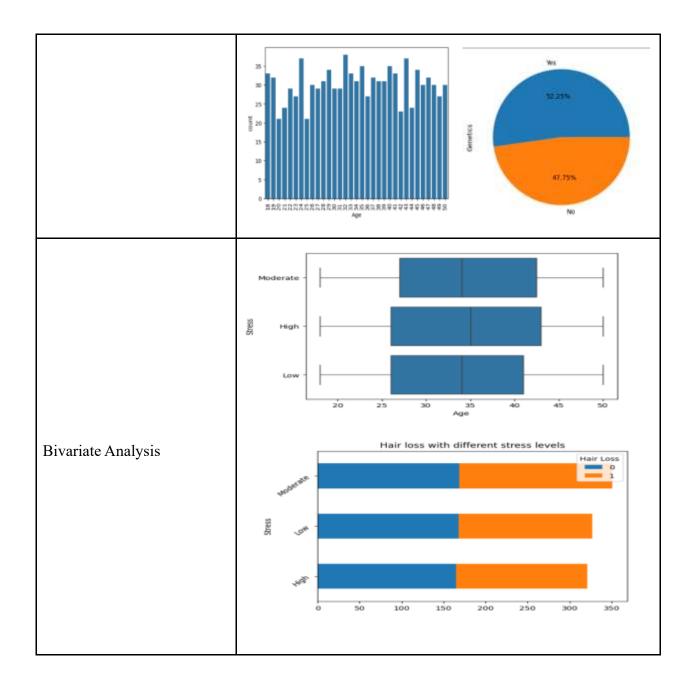
Data Exploration and Preprocessing Report

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	escri	ptio	n										
	99	9 ro			lumns									
		5-300	Smetica	Horsonal Changes	Medical Conditions	Hedications & Treatments	Netritional Deficiencies	Stress	ige	Poor Helir Cary Rebits	Instrumental Factors	Seeking	inlight Loss	Hair Loss
	0	133992	Yes	No	No Date	No Data	Magnesiam deficiency	Moderate	19	Yes	Yes	Ne	No	0
Data Overview	1.	148393	No	No	Eszerre	Artibiotics	Magnesium deficiency	High	43	No	Yes	76s	No	.0
	7	155574	No	No	Dernstous	Artifungil Cream	Protein deficiency	Moderate	26	Yes	Yes	No	Yes	0
	3	118281	Yes	Sec	Reguere	Antibiolics	Blotin Deficiency	Moderate	46	791	Yes	No	760	D
	4	111815	140	No	Present	Acodera	iton deficiency	Moderate	50	No	Yes	Yes	740	1
	-			_		-	=	-	H	10	1.4	-	-	. 11
	994	184367	Yes	No	Seborteis Demotits	Rogera	Vitaron A Delicency	Law	55	Yes	Yes	Sec	Yes	+
	995	184777	Yes	Yes	No Deter	Acculance	Protein deficiency	Low	47	No	No	Tê:	Yes	.0
	995	143273	166	Yes	Androgenetic Alopsos	Artidopressurts	Protein deficiency	Moderate	200	36	No	Yes	Yes	
	997	100123	No	Ves	Demattis	Immonosidatas	Biotin Deficiency	Moderate	32	. Yes	Yes	Tire	Yes	. 1
	993	127183	Yes	Yes	Psotetis	Blood Presoure Medication	Vitamin D Deficiency	Low	34	No	Yes	No	No	-3

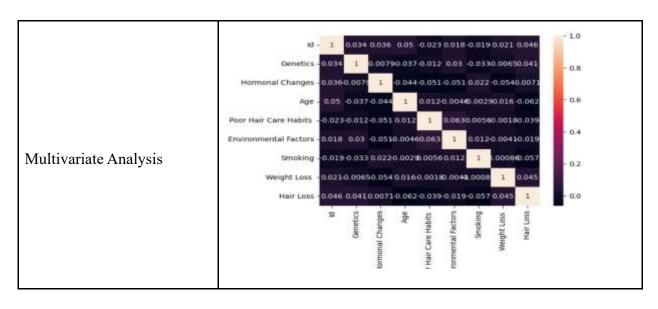












Outliers and Anomalies	-
Data Preprocessing Co	de Screenshots
	# importing the dataset which is in csv file data= pd.read_csv('/content/Dataset/hairfall_prediction.csv') data 1 ld Genetics Hormonal Medical G Medicato Nutritiona Stress Age Poor Hair Environmy Smoking Weight Lo Hair Loss
Loading Data	1 Id Genetics Hormonal Medical C-Medicatio Nutritiona Stress Age Poor Hair Environm/Smoking Weight Lo Hair Loss 2 133992 Yes No No Data No Data Magnesiu Moderate 19 Yes Yes No No No 0
	a land to the most of the same to the same
Loading Data	3 148393 No No Eczema Antibiotic Magnesiu High 43 Yes Yes No No 0
Loading Data	3 148393 No No Eczema Antibiotici Magnesiui High 43 Yes Yes No No 0 4 155074 No No Dermatos Antifungal Protein de Moderate 26 Yes Yes No Yes 0
Loading Data	[18] [18] [18] [18] [18] [18] [18] [18]
Loading Data	4 155074 No No Dermatos Antifungal Protein de Moderate 26 Yes Yes No Yes 0





	df.Info()
Handling Missing Data	RangeIndex: 999 entries, 0 to 998 Data columns (total 13 columns): ### Column
Feature Engineering	Attached the codes in final submission.
Save Processed Data	_