



Date	21 JULY 2024
Team ID	team-740025
Project Title	Unlocking Silent Signals :Decoding Body Language With Mediapipe
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	Desci	ripti	on																
	Dime 4595 Descr	row	$s \times 2$			nns													
	34]:	x1	y1	z 1	v1	x2	у2	22	v2	х3	у3	***	z499	v499	x500	y500	z500		
		0.460887		-1.121984		0.484884	0.513489	-1.069172	0.999606	0.504262	0.512900	-	-0.001009	2.77	0.532710	0.511281	0.033799	0.0	
				-1.238655				-1.173208					-0.000845		0.529603	0.512033		0.0	
				-1.264079 -1.253284				-1.198528		0.498597			-0.000800		0.528513	0.512119		0.0	
Data Overview		0.465295	0.607626		0.999726			-1.166696					-0.001360		0.538700	0.526081	0.032013	0.0	
Data Overview		0.403233	0.007020	-1440010	0.55512.0	0.402713	0.322270	-1,100030	0.222404	0.725415	0.313140	-	0.003030	0.0	0.330700	0.220001	0.030072	0.0	0,5
	4590	0.684548	0.511105	-1.037075	0.999985	0.706993	0.433930	-0.976545	0.999968	0.723656	0.435579		-0.003546	0.0	0.748149	0.430420	0.029645	0.0	0.7
	4591	0.684455	0.511044	-0.985705	0.999985	0.706319	0.433798	-0.928487	0.999967	0.722609	0.435238		-0.003345	0.0	0.747559	0.434463	0.029979	0.0	0.7
	4592	0.684569	0.509095	-1.019472	0.999984	0.706292	0.430161	-0.948244	0.999966	0.722583	0.429946	-	-0.003653	0.0	0.751030	0.432241	0.029848	0.0	0.7
	4593	0.687874	0.509134	-1.102308	0.999953	0.708338	0.430230	-1.033438	0.999922	0.724405	0.429943		-0.004866	0.0	0.760940	0.428284	0.030739	0.0	0.7
	4594	0.691391	0.509307	-1.146814	0.999941	0.710918	0.430336	-1.065239	0.999904	0.726889	0.430056		-0.003975	0.0	0.764780	0.431389	0.030545	0.0	0.7
	4595 n	ows × 200	4 columns																





Loading Data	Training model using Scikit Learn Read in collected data and process 9]:
Data Transformation	35]: 0
Feature Engineering	1318 Sad 723 Happy 2863 Sad Name: class, Length: 3676, dtype: object Attached the codes in final submission.
Save Processed Data	-