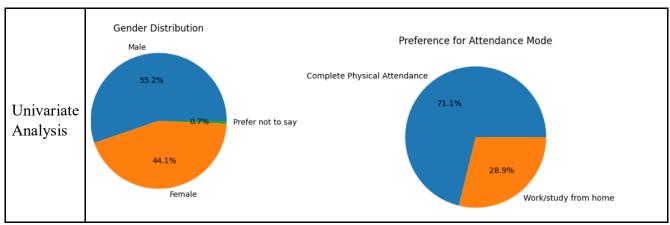




Section	Des	scripti	ion													
	Descriptive statistics:    data.describe()     time.bp   time.dp travel.time easeof.online   home.env   prod.inc   sleep.bal   new.skill   fam.connect   relaxed   self.time   like.hw   dislike.hw   unn													Unnamed:	T	
	count	1175.000000	11 15-11	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	1175.000000	0.0	
	mean	7.415319	7.971915	1.027660	2.533617	2.752340	0.008936	-0.108936	0.146809	0.260426	0.035745	0.082979	734.840851	651.067234	NaN	
	std	2.005385	2.657007	0.713314	1.267609	1.235799	0.615083	0.621215	0.643686	0.686825	0.626637	0.541434	468.000935	502.319310	NaN	
	min	4.000000	4.000000	0.500000	1.000000	1.000000	-1.000000	-1.000000	-1.000000	-1.000000	-1.000000	-1.000000	1.000000	1.000000	NaN	
Data	25%	5.000000	5.000000	0.500000	1.000000	2.000000	-0.500000	-0.500000	-0.500000	0.000000	-0.500000	-0.500000	100.000000	101.000000	NaN	
	50%	7.000000	9.000000	0.500000	2.000000	3.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	1001.000000	1000.000000	NaN	
Overview	75%	9.000000	9.000000	1.500000	4.000000	4.000000	0.500000	0.500000	0.500000	1.000000	0.500000	0.500000	1100.000000	1101.000000	NaN	
	max	12.000000	12.000000	3.000000	5.000000	5.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1111.000000	1111.000000	NaN	- 12







**Data Collection and Preprocessing Phase** 

Date	21 June 2024
Team ID	740002
Project Title	Life Style Change Due To Covid Prediction
Maximum Marks	6 Marks

## **Data Exploration and Preprocessing Report**

The data exploration and preprocessing phase is crucial in preparing the dataset for developing a predictive model that forecasts lifestyle changes due to COVID-19. This report outlines the steps taken to understand and preprocess the data to ensure its quality, relevance, and suitability for analysis and modeling.





Bivariate Analysis							
Multivariate Analysis							
Outliers and Anomalies							
Data Preprocessing Code Screenshots							





Loading Data	0 19- Male Sh 25 Male Sh 1 Dec- 18 Male Sh 2 19- Male Sh 3 19- Male Sh	pation line_of_work  Indent in NaN  Ident in NaN	7 7 7 7	time_dp trave 5 11 7 7	0.5 0.5 1.5 1.5	seof_online home_ 3 4 2 3	2 2 1 2 2	d_inc 0.0 -0.5 1.0 0.0	fam_	1.0 1.0 0.5 0.0	-0.5 1.0 0.5 -1.0	-0.5 1.0 0.5 -0.5 0.0	like_hw 100 1111 1100 100 1010	dislike_hw  1  1110  111  1111  1000	prefer Complete Physical Attendance	certain
Handling Missing Data	data.isnull(  age gender occupation line_of_work time_bp time_dp travel_time easeof_onlin- home_env prod_inc sleep_bal new_skill fam_connect relaxed self_time like_hw dislike_hw prefer certaindays_ Unnamed: 19 time_bp.1 travel+work dtype: int64	0 0 0 696 0 0 0 0 0 0	<cla #<="" data="" range="" th=""><th>eIndex: 1 columns Columns Column Golumn Figure 1 column Figure 2 column Figure</th><th>ion work  time cal ll nect me hw days_hw : 19 :1 total</th><th><pre>0 non-nul 1175 non- 0 non-nul int64(7),</pre></th><th>1174 ): Count null null null null null null null</th><th>obt ob ob ob in fli in fli fli in in ob ob fli in fli in fli in in fli in in fli in in in ob ob fli in fli in fli in fli in ob ob fli in fli i</th><th>yype ject ject ject ject ject t64 t64 t64 t64 tadat64 baat64 baat64 t64 t64 t64 t64 t64 baat64</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></cla>	eIndex: 1 columns Columns Column Golumn Figure 1 column Figure 2 column Figure	ion work  time cal ll nect me hw days_hw : 19 :1 total	<pre>0 non-nul 1175 non- 0 non-nul int64(7),</pre>	1174 ): Count null null null null null null null	obt ob ob ob in fli in fli fli in in ob ob fli in fli in fli in in fli in in fli in in in ob ob fli in fli in fli in fli in ob ob fli in fli i	yype ject ject ject ject ject t64 t64 t64 t64 tadat64 baat64 baat64 t64 t64 t64 t64 t64 baat64							
Data Transformation	<pre>le_age.fit_transform(data['age']) le_gender.fit_transform(data['gender']) le_occupation.fit_transform(data['occupation']) le_line_of_work.fit_transform(data['line_of_work']) le_prefer.fit_transform(data['prefer']) le_certaindays_hw.fit_transform(data['certaindays_hw']) array([2, 1, 2,, 0, 2, 2])</pre>															
Feature Engineering	Attached the	ne codes i	n fir	nal sub	omiss	ion.										
Save Processed Data	-															