



${\tt Data Collection} and {\tt Preprocessing Phase}$

| Date | 15June2024 |
|--------------|------------------------|
| | |
| TeamID | 740007 |
| ProjectTitle | |
| | Mentalhealthprediction |
| | |
| MaximumMarks | 6Marks |

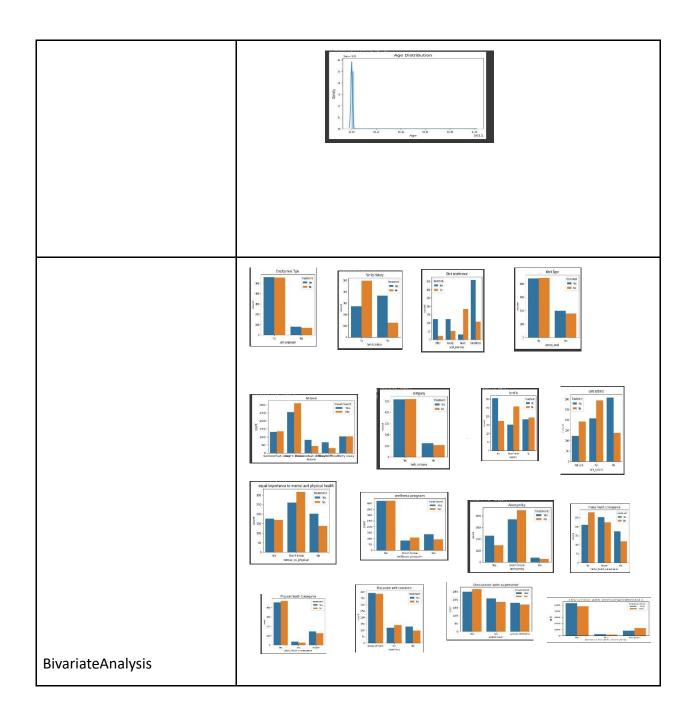
 ${\color{blue} \textbf{DataExploration} and Preprocessing Report}$

Dataexploration formental health prediction involves an alyzing and understanding datasets to identify patterns and correlations relevant to mental health factors. Preprocessing includes cleaning data, handling missing values, and transforming variables to prepare for predictive modeling and analysis.

| Section | Description |
|------------------------|--|
| | <u>Dimension</u> : 5rows*27columns |
| | <u>Descriptivestatistics</u> |
| | Timestamp Age Gender Country state self_employed family_history treatment work_interfere no_employees leave mental_health_consequence phys_hea |
| | 0 27 37 Female United IL NaN No Yes Often 6-25 Somewhat No 11:29:31 |
| | 2014-08- United IN NaN No No Rarely Morethan Don't Maybe 1 27 44 M States IN NaN No No Rarely 1000 know Maybe 11:29:37 |
| | 2014-08. 2 27 32 Male Canada NaN NaN No No Rarely 6-25 difficult No 11:29-44 |
| | 2014-08. United NaN NaN Yes Yes Often 26-100 difficult Yes 3 27 31 Male Kingdom NaN NaN Yes Yes Often 26-100 difficult Yes 11:29-46 |
| | 2014-08- 4 27 31 Male United TX NaN No No Never 100-500 Don't No 11:30-22 |
| Data | 5 rows × 27 columns |
| Data | · |
| Overview | |
| Univariate Analysis | |











| MultivariateAnalysis | | | | | | | | | | | | | |
|----------------------|------|--|--------------------------------|----------|---------------------------------------|------------|-----------------|---------------------|-------------|------------------------|-------------------|--------------------------------|----------------------------------|
| | | | | | | | | | | | | | |
| OutliersandAnomalies | - | | | | | | | | | | | | |
| DataPreprocessingCo | eScr | een | sho | ts | | | | | | | | | |
| | | data - pd. | | "/conter | nt/survey. | esv") | | | | | | | |
| | Ð | | anp Age | | | state self | _employed famil | y_history tre No | atment work | _interfere no Often | _employees . | | ntal_health_consequence phys_hea |
| | | | 08- 27 44 9:37 | | | | | | | | More than 1000 | Don't know | Maybe |
| | | | -08- 27 32 244 | | | | | | | | | Somewhat difficult | No |
| | | 2014 3 11:29 2014 4 11:30 | 27 31 0:46 -08 -27 31 | | United Kingdom United States | | | | | | 26-100 100-500 | Somewhat difficult Don't know | Yes No |
| | | 11:30 5 rows × 27 | | Male | States | 1.8 | NaN | NO | No | Never | 100-500 | know | NO |
| LoadingData | | | | | | | | | | | | | |





| | data.ismult().sum() Timestump 0 Age 0 Gender 0 Country 0 State 515 sulf employed 18 family_listary 0 tone, latertere 264 so, employees 264 rende_pork rende_pork rende_pork tech_company 0 benefits 0 core, options 0 sulless_progrom 0 seek_belp 0 anonymity 1 leave mantal_boalth_consequence 0 plys_health_consequence 0 plys_health_consequence 0 mutal_boalth_interview 0 mut |
|---------------------|--|
| HandlingMissingData | |
| | |
| | |
| DataTransformation | |
| FeatureEngineering | Attached the codes in final submission. |
| SaveProcessedData | _ |