**Data Collection and Preprocessing Phase**

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| Date | 15 JULY 2024 |
| Team ID | 740068 |
| Project Title | Detection Of Autistic Spectrum Disorder: Classification |
| Maximum Marks | 2 Marks |

**Data Collection Plan & Raw Data Sources Identification Template**

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

**Data Collection Plan Template**

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| **Section** | **Description** |
| Project Overview | Develop a machine learning model to detect and classify Autistic Spectrum Disorder (ASD) using neuroimaging and clinical data. Improve diagnostic accuracy and enable earlier intervention for individuals with ASD.  Identify novel biomarkers and risk factors for ASD.  Enhance understanding of ASD's neural mechanisms and underlying causes. |
| Data Collection Plan | Kaggle |
| Raw Data Sources Identified | 1. Clinical data:  - Electronic Health Records (EHRs)  - Clinical interviews and assessments  - Behavioral observations  - Medical history  2. Neuroimaging data:  - Magnetic Resonance Imaging (MRI)  - Functional MRI (fMRI)  - Electroencephalography (EEG)  - Magnetoencephalography (MEG)  3. Behavioral data:  - Parent-reported behavioral questionnaires  - Teacher-reported behavioral questionnaires  - Direct behavioral observations  - Wearable sensors (e.g., actigraphy, GPS) |

**Raw Data Sources Template**

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| **Source Name** | **Description** | **Location/URL** | **Format** | **Size** | **Access Permissions** |
| Dataset 1 | The dataset consists single CSV file.This dataset is mainly concerning Indian climatic conditions.There are seven input features only one output features. | /content/Autism\_Data.Csv | CSV | 146KB | Public |