

## Data Collection and Preprocessing Phase

Date	15 JULY 2024
Team ID	739881
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

Section	Description
Project Overview	<p>Develop a machine learning model to detect and classify Autistic Spectrum Disorder (ASD) using neuroimaging and clinical data.</p> <p>Improve diagnostic accuracy and enable earlier intervention for individuals with ASD.</p> <p>Identify novel biomarkers and risk factors for ASD.</p> <p>Enhance understanding of ASD's neural mechanisms and underlying causes.</p>
Data Collection Plan	Kaggle

Raw Data Sources Identified	<p>1. Clinical data:</p> <ul style="list-style-type: none"> <li>- Electronic Health Records (EHRs)</li> <li>- Clinical interviews and assessments</li> <li>- Behavioral observations</li> <li>- Medical history</li> </ul> <p>2. Neuroimaging data:</p> <ul style="list-style-type: none"> <li>- Magnetic Resonance Imaging (MRI)</li> <li>- Functional MRI (fMRI)</li> <li>- Electroencephalography (EEG)</li> <li>- Magnetoencephalography (MEG)</li> </ul> <p>3. Behavioral data:</p> <ul style="list-style-type: none"> <li>- Parent-reported behavioral questionnaires</li> <li>- Teacher-reported behavioral questionnaires</li> <li>- Direct behavioral observations</li> <li>- Wearable sensors (e.g., actigraphy, GPS)</li> </ul>
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### Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions

Dataset 1	<p>The dataset consists of a single CSV file. This dataset is mainly concerning Indian climatic conditions. There are seven input features and only one output feature.</p>	<a href="#">/content/Autism_Data.Csv</a>	CSV	146KB	Public
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