

Data Collection and Preprocessing Phase

Date	15 JULY 2024
Team ID	740075
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"> - Electronic Health Records (EHRs) - Clinical interviews and assessments - Behavioral observations - Medical history <p>2. Neuroimaging data:</p> <ul style="list-style-type: none"> - Magnetic Resonance Imaging (MRI) - Functional MRI (fMRI) - Electroencephalography (EEG) - Magnetoencephalography (MEG) <p>3. Behavioral data:</p> <ul style="list-style-type: none"> - Parent-reported behavioral questionnaires - Teacher-reported behavioral questionnaires - Direct behavioral observations - Wearable sensors (e.g., actigraphy, GPS)
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Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
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Dataset 1	<p>The dataset consists single CSV file. This dataset is mainly concerning Indian climatic conditions. There are seven input features only one output features.</p>	<pre>/content/Autism_Data.Csv</pre>	CSV	146KB	Public
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