

Data Collection and Preprocessing Phase

Date	10 July 2024
Team ID	SWTID1720426301
Project Title	Cognitive Care: Early Intervention for Alzheimer's Disease
Maximum Marks	2 Marks

Data Quality Report

The Data Quality Report will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source	Data Quality Issue	Severity	Resolution Plan
Kaggle Dataset	Class imbalance among Alzheimer's Disease classes.	Moderate	Implement SMOTE (Synthetic Minority Over-sampling Technique) to generate synthetic samples for minority classes, ensuring balanced representation during model training.
Kaggle Dataset	Inconsistent image quality and resolution across MRI scans.	High	Standardize image preprocessing techniques such as resizing to a uniform resolution, applying denoising filters, and ensuring

			consistent contrast adjustment to enhance image clarity and consistency.
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