 **Data Collection and Preprocessing Phase**

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| Date | 10 December 2024 |
| Team ID | 739902 |
| Project Title | Alzheimer Disease Prediction |
| Maximum Marks | 6 Marks |

**Preprocessing Template**

The images will be preprocessed by resizing, normalizing, augmenting. These steps will enhance data quality, promote model generalization, and improve convergence during neural network training, ensuring robust and efficient performance across various computer vision tasks.

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| **Section** | **Description** |
| Data Overview | 1. The dataset includes brain MRI images.  2. It contains many records, with images in JPG format. |
| Resizing | Resize brain MRI images to a standard resolution to ensure uniform input size. |
| Normalization | Normalize pixel values of MRI images to a range between 0 and 1 for consistency. |
| Data Augmentation | Apply augmentation techniques like random flipping, rotation, and zooming to increase data variability and prevent overfitting. |

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| **Data Preprocessing Code Screenshots** | |
| Loading Data |  |
| Resizing, Normalization and  Data Augmentation |  |

