**Data Collection and Preprocessing Phase**

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| Date | 15 March 2024 |
| Team ID | SWTID1720110358 |
| Project Title | Rice Classification using CNN |
| Maximum Marks | 6 Marks |

**Preprocessing Template**

The images will be preprocessed by resizing, normalizing, augmenting, denoising, adjusting contrast, detecting edges, converting color space, cropping, batch normalizing, and whitening data. 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 | Images of different types of rice |
| Resizing | Resize images to a specified target size. |
| Normalization | Normalize pixel values to a specific range. |
| Data Augmentation | Apply augmentation techniques such as flipping, rotation, shifting, zooming, or shearing. |
| **Data Preprocessing Code Screenshots** | |
| Loading Data |  |
| Resizing |  |
| Normalization |  |
| Data Augmentation |  |