

## Data Collection and Preprocessing Phase

Date	20 July 2024
Team ID	SWTID1720109344
Project Title	Rice Type Classification Using Cnn
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	Project focuses on classifying different types of rice grains using deep learning techniques. The primary goal is to develop an effective image classification model that can accurately identify and categorize rice types based on visual data. This involves collecting a diverse dataset of rice images, preprocessing them through various techniques such as resizing, normalization, and augmentation, and then training a deep learning model using MobileNetV2 for feature extraction. The project aims to evaluate the model's performance using metrics like accuracy and classification reports, and ultimately deploy the model for practical use, enabling users to classify rice types from images efficiently.
Data Collection Plan	The data for the rice type classification project is sourced from Kaggle. This dataset includes a variety of rice images, which are used to train and evaluate the deep learning model for accurate classification.
Raw Data Sources Identified	The raw data for the rice type classification project is sourced from Kaggle, specifically from a dataset that includes a diverse collection of images of different rice types. This dataset features labeled images of various rice varieties, each showcasing rice grains in

	different conditions and perspectives. The comprehensive nature of the dataset provides the necessary variety and quality of images to effectively train and validate the deep learning model for accurate classification of rice types.
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### Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Dataset 1	Description of the data in this source.	<a href="https://www.kaggle.com/datasets/muratkokludataset/rice-image-dataset">https://www.kaggle.com/datasets/muratkokludataset/rice-image-dataset</a>	CSV	0.23 GB	Public