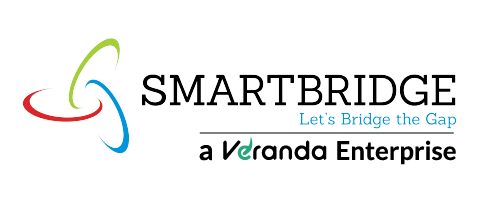


**Data Collection and Preprocessing Phase**

|  |  |
| --- | --- |
| Student Name | Amruta Pawar |
| Project Title | Uncovering The Hidden Treasures Of The  Mushroom Kingdom: A Classification Analysis |
| Maximum Marks | 2 Marks |

**Data Collection Plan**

|  |  |
| --- | --- |
| **Section** | **Description** |
| Project Overview | This deep learning project focuses on classifying images of three types of mushrooms—Boletus, Lactarius, and Russula—using Convolutional Neural Networks (CNNs). The objective is to uncover hidden patterns and visual cues that distinguish each type, contributing to better mushroom identification in the wild. |
| Data Collection Plan | The dataset has been sourced from a ZIP file provided by the SmartInternz, which includes categorized images in subdirectories named after each mushroom type. Additional reference images were accessed from publicly available sources such as Wikimedia and Kaggle to enhance variability and robustness. |
| Raw Data Sources  Identified | The raw data includes SmartInternz provided images saved in structured subdirectories, supplemented by publicly available datasets for training and validation purposes. |



**Raw Data Sources**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source Name** | **Description** | **Location/URL** | **Format** | **Size** | **Access Permissions** |
| SmartInterz  Provided  Dataset | Curated image dataset  provided by SmartInternz, containing Boletus, Lactarius, and Russula images in separate subdirectories. | [https://drive.goo](https://drive.google.com/drive/folders/1WHjhoYnyrltQWJ_TYI5xM_5dTyIzByo3)  [gle.com/drive/fo lders/1WHjhoY nyrltQWJ\_TYI5](https://drive.google.com/drive/folders/1WHjhoYnyrltQWJ_TYI5xM_5dTyIzByo3)  [xM\_5dTyIzByo](https://drive.google.com/drive/folders/1WHjhoYnyrltQWJ_TYI5xM_5dTyIzByo3)  [3](https://drive.google.com/drive/folders/1WHjhoYnyrltQWJ_TYI5xM_5dTyIzByo3) | ZIP File | ~ 175  MB | Public |
| Field  Captured  Images | Manually photographed images taken in natural environments, used for supplementing the dataset. | Local Storage | JPG/PNG | ~100  MB | Private |
| Kaggle - Mushroom  Image  Dataset | Supplementary dataset with additional labeled mushroom images. | [https://www.kaggl e.com/datasets?se arch=Mushrooms +images++Boletu s%2C+Lactarius+ %26+Russula](https://www.kaggle.com/datasets?search=Mushrooms+images++Boletus%2C+Lactarius+%26+Russula) | JPG | ~ 111  MB | Public |
| Wikimedia | Open-source mushroom images used for visual verification and dataset augmentation. | [https://en.wikiped ia.org/wiki/Lactar](https://en.wikipedia.org/wiki/Lactarius)  [ius](https://en.wikipedia.org/wiki/Lactarius) | JPG/PNG | ~10  MB | Public |