**Data Collection and Preprocessing Phase**

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| **Section** | **Description** |
| Data Overview | The dataset contains restaurant information from Zomato, including name, reviews, ratings, cuisines, cost, and more. The data is cleaned, deduplicated, and preprocessed for building a content-based recommendation system. |
| Resizing | *Not applicable for text data.* |
| Normalization | Ratings are normalized to a 1-5 scale using MinMaxScaler. Text is lowercased and punctuation is removed. |
| Data Augmentation | Not applicable for text data. |
| Denoising | Text is cleaned by removing newline characters and punctuation. |
| Edge Detection | Not applicable for text data. |

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| Date | 26 May 2025 |
| Name | Pranay Sanjay bhandwalkar |
| Project Title | Restaurant Recommendation System |
| Maximum Marks | 6 Marks |

**Data Preprocessing**

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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| Color Space Conversion | Not applicable for text data. |
| Image Cropping | Not applicable for text data. |
| Batch Normalization | Not applicable for text data. |
| **Data Preprocessing Code Screenshots** | |
| Loading Data |  |
| Resizing | *Not applicable* |
| Normalization |  |
| Data Augmentation | *Not applicable* |
| Denoising |  |
| Edge Detection | *Not applicable* |

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| --- | --- |
| Color Space Conversion | *Not applicable* |
| Image Cropping | *Not applicable* |
| Batch Normalization | *Not applicable* |