**Contributions:**  
**Priya Kaur**

* Pre-processing the images and preparing the data for training the model
* Implementing SMOTE to address class imbalance in the training data
* Performing exploratory data analysis and visualization of the lung image data

**Sunil Joshi Komaragiri**

* Implementing hyperparameter tuning using RandomizedSearchCV and KerasClassifier
* Building and training a CNN model using Keras to classify the lung images
* Evaluating the performance of the CNN model using classification report and confusion matrix

**Pavan Marturu**

* Building and training a CNN model using Keras and ImageDataGenerator to augment the data during training
* Evaluating the performance of the CNN model using classification report and confusion matrix
* Visualizing the training and validation accuracy and loss using plots