Data Collection and Preprocessing Phase

Date	7th July 2024
Team ID	SWTID1720195938
Project Title	**CovidVision: Advanced COVID-19 Detection from Lung X-Rays with Deep Learning**
Maximum Marks	2 Marks

Data Source	Data Quality Issue	Severity	Resolution Plan
COVID-19 CHEST X-RAY DATABASE	Inconsistent image resolutions.	Moderate	Standardize all images to 299x299 pixels during preprocessing.
Padchest Dataset	Missing metadata for some images.	Low	Ignore metadata and focus solely on the image data for the initial model training phase.
Germany Medical School Dataset	Variability in image quality (contrast, brightness).	High	Apply image normalization techniques to standardize image quality.
Another GitHub Source (COVID-CXNet)	Limited number of images.	High	Use data augmentation techniques (rotation, rescaling, flipping) to artificially increase dataset size.
Chest X-Ray Images (pneumonia) Dataset	Class overlap (similar appearances in viral pneumonia and COVID-19 images).	Moderate	Train the model to identify subtle differences or use additional clinical data to distinguish classes.