

Data Collection and Preprocessing Phase

Date	15 March 2024
Team ID	SWTID1720425899
Project Title	Covid Vision: Advanced COVID-19 Detection from Lung X-rays with Deep Learning
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification:

Data Collection Plan Template

Section	Description
Project Overview	Develop an advanced, accurate, and real-time COVID-19 detection tool from lung X-rays using transfer learning. The tool aims to assist radiologists and healthcare professionals in diagnosing COVID-19 quickly and effectively, improving patient outcomes and supporting public health efforts.
Data Collection Plan	Data collected from Kaggle is downloaded into drive and accessed via collab using opendatasets python library. Two folders are created such that one contains the data 'Covid' images and the other the data contains 'Normal' images.
Raw Data Sources Identified	The Lung X-ray dataset is collected from Kaggle.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Covid -19 Detection from Lung X-rays	The dataset contains data of chest X-ray images for Covid-19 positive cases along with Normal and Viral Pneumonia images.	https://www.kaggle.com/datasets/tawsifurrahman/covid19-radiography-database	Image	816 MB	Public