Data Collection and Preprocessing Phase

Date	30 Sep 2024
Team ID	team-740082
Project Title	Real-time Bone Fracture Detection with YOLO-V8 Using X-ray Images
Maximum Marks	2 Marks

Data Quality Report Template

The data quality report for the real-time bone fracture detection project highlights key attributes of the X-ray dataset. The dataset consists of images,2193 training,91 test and 91validation, covering diverse fracture types and locations. Images are annotated in YOLO format with bounding boxes to ensure precise labeling. Preprocessing steps, including noise reduction and normalization, were applied to enhance clarity and consistency. Initial analysis revealed some imbalances in fracture types, which were addressed using augmentation techniques. Overall, the dataset is robust, well-prepared, and suitable for training the YOLO-V8 model.

Data Source	Data Quality Issue	Severity	Resolution Plan
Code	Collected form ultralytics	Low	Made modifications by giving my file path
Dataset	Given only train dataset but not given test and valid dataset.	High	Made a new dataset in Roboflow
Templates	Downloaded from bootstrap	Low	Modified as per my project