

FULL SPINE X-RAY COLLECTION FOR AI TRAINING

■ CLIENT'S PROFILE

Country: Germany

Size: 10,000+ employees worldwide

Industry focus: Software and hardware development for multiple healthcare domains.

■ PROJECT GOAL

Training, testing and validation of AI algorithms, or other development activities undertaken during the creation of an AI algorithm.

■ PROJECT DESCRIPTION

medDARE provided data collection of full spine X-Rays. The field of view extended from the cervicocranial junction to the proximal femurs.

Number of images:

- min. 1000 frontal view (PA or AP)
- min. 1000 lateral view

Image format:

- anonymized DICOM

Populations and pathologies:

- (about 50%) pediatric population; adolescent idiopathic scoliosis (10-20% mild, 10-20% moderate, 10-20% severe)
- (about 50%) adult population; scoliosis/abnormal kyphosis/abnormal lordosis (10-20% mild, 10-20% moderate, 10-20% severe)

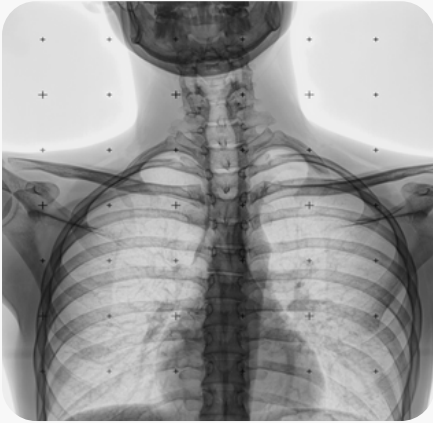
Delivery of Data included:

a) DICOM files

b) Spreadsheet with relevant metadata, such as case ID, subset (positive or negative), patient age, gender, manufacturer, scanner model, radiology report.

A batch of 20 test cases per category was delivered to pre-check Data quality. The rest of the data was delivered in batches within 60 days after signing the agreement. Data was stored in the medDARE and client's servers in the EU.

PROJECT WORKFLOW & TEAM ASSIGNED



THE WORKFLOW AND QUALITY ASSURANCE PROCESS AT MEDDARE LOOKED LIKE THE FOLLOWING:

On Operations Manager's (OM) side:

- Understanding customer needs and requirements in order to develop and maintain effective quality control process;
- Coordinate activities to meet the required standards of quality;
- Setting deadlines and managing tasks;
- Controlling the quality of all current projects;
- Communicating with clients to make sure that both parties have the same understanding of the quality standards and project workflow.

On Quality Manager's (QM) side:

- Ensuring that all development tasks meet quality criteria through the test planning, test execution, quality assurance, and problem tracking;
- Testing employee knowledge to define quality level;
- Providing training sessions for employees;
- Monitoring the quality of each team member.

On Data Manager's (DM) side:

- Anonymization of data, according to client's requirements
- Timely delivery of batches according to the project timelines.

PROJECT'S OUTCOME

Thanks to the services provided by medDARE, the client was able to use the full spine X-Rays for data annotation purposes. The X-Rays were used for developing AI algorithms that were able to detect scoliosis, abnormal kyphosis and abnormal lordosis. The client was able to meet the project's deadlines, **saving 50% on costs for data curation.**



CONTACT US TO LEARN MORE ABOUT MEDDARE & HOW IT CAN TRANSFORM YOUR AI PROJECT

E-mail: contact@meddare.ai
Website: www.meddare.ai