Manentia AI

Revolutionizing Radiology with AI-Powered Imaging Solutions

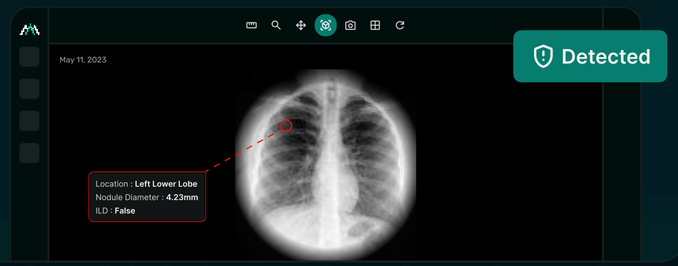
Transforming Medical Imaging with AI

The Future of AI-Powered Radiology for Hospitals, Diagnostic Centers & Tele-Radiology

Introduction to Manentia AI Product Suite

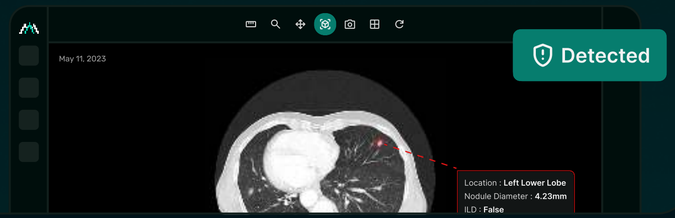
mXR

AI for automated chest X-ray abnormalities (TB, Pneumonia, Fractures)



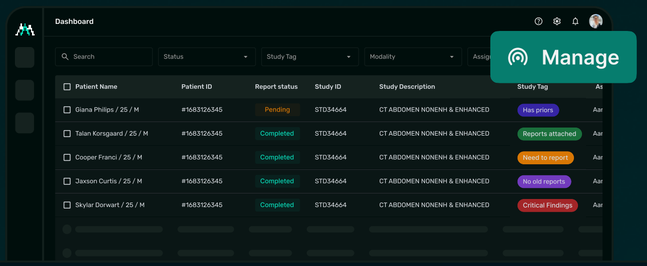
mCT

AI for Lung, Brain, and MSK CT Scan Analysis (nodule detection, stroke, calcium scoring)



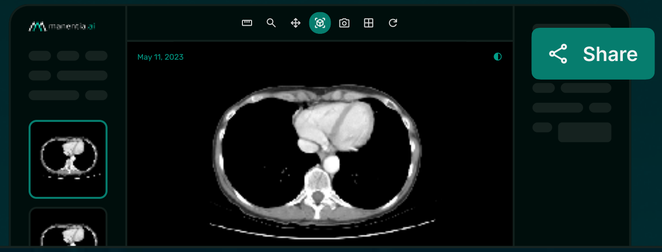
mDX

Tele-Radiology Platform for remote reporting with AI-assisted diagnostics



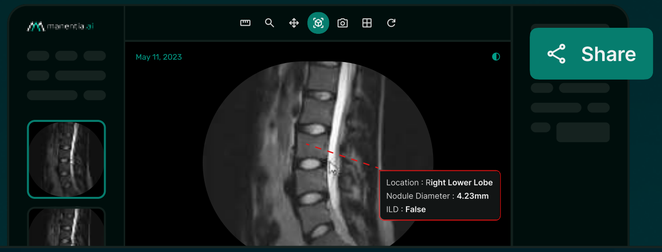
mPACS

Cloud & On-Premises PACS integrated with AI



mMR

AI-powered MRI Brain & Spine interpretation for neuro and MSK conditions



mPACS – AI-Powered PACS (Cloud & On-Premise)

mPACS is a next-generation Picture Archiving & Communication System (PACS) with AI-integrated workflows for hospitals and diagnostic centers.

Key Features

DICOM Image Storage & Retrieval

Securely stores CT, MRI, X-ray, CBCT, and OPG images

AI-Powered Reporting

AI automatically detects abnormalities and assists radiologists

Multi-Site Accessibility

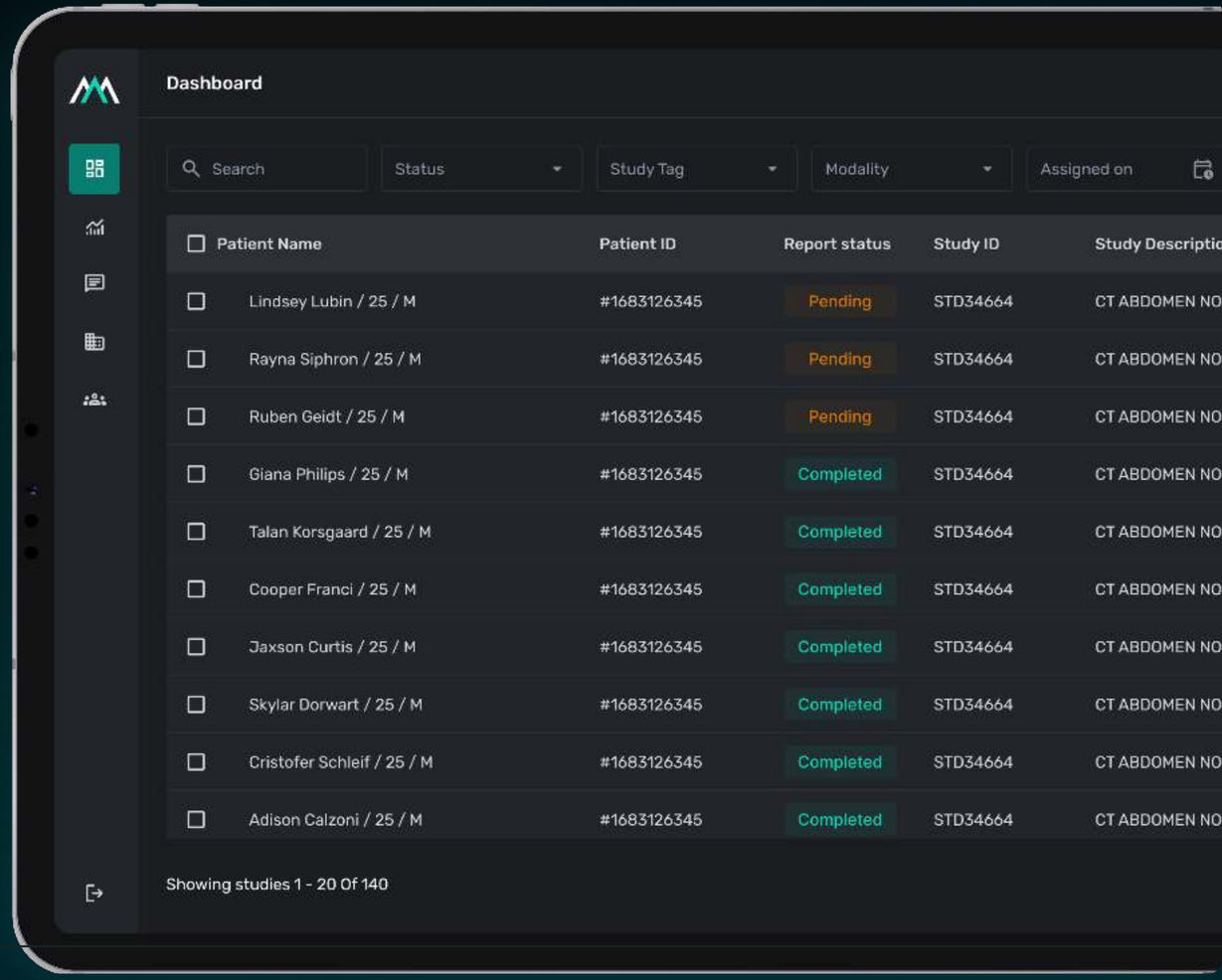
Cloud-based system allows access across hospitals & tele-radiology networks

Seamless Integration

Works with existing RIS, HIS, and EMR

Automated Quality Control

AI flags low-quality scans & reduces reporting errors



mXR – AI for Chest & MSK X-Ray Analysis

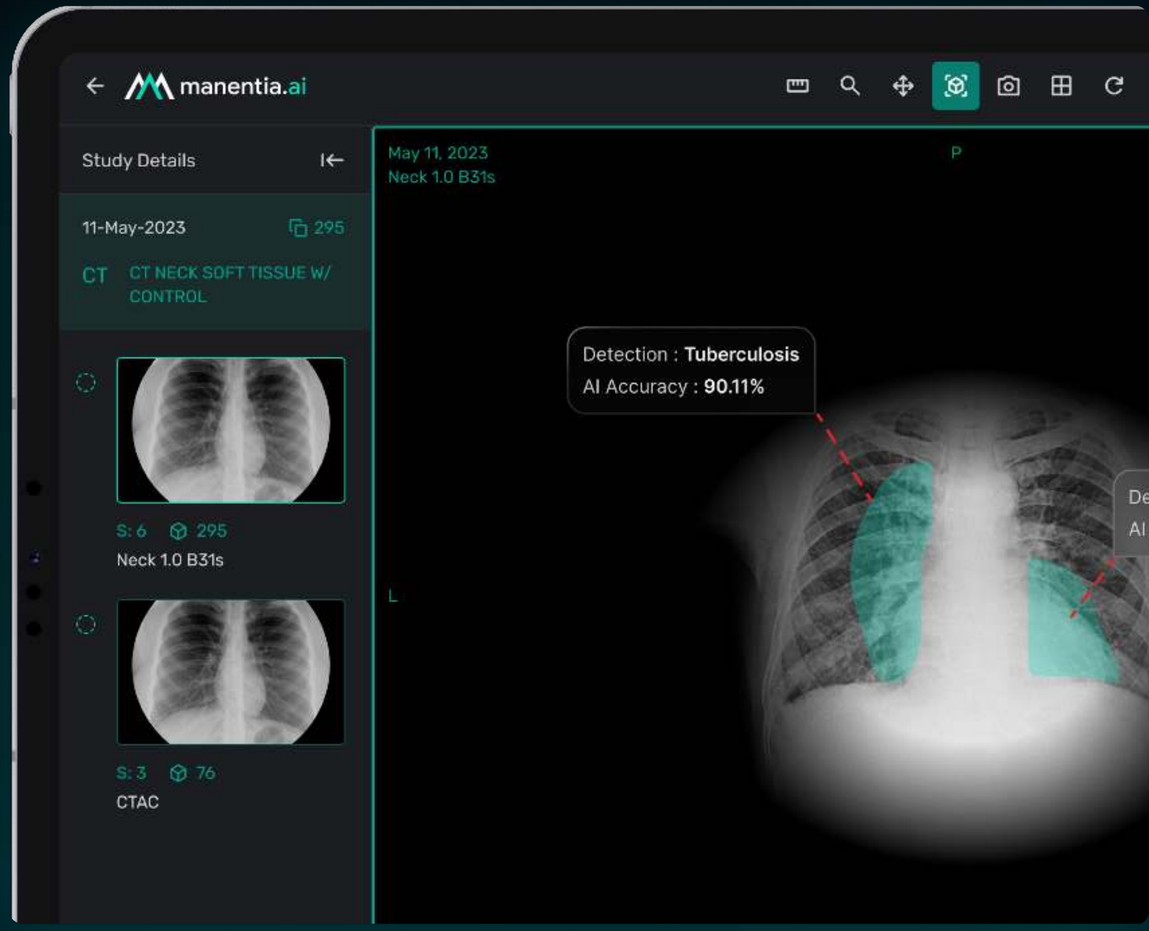
mXR provides automated AI detection of abnormalities in chest and musculoskeletal (MSK) X-rays, reducing diagnosis time and improving accuracy.

Chest X-Ray:

- **Lung Abnormalities**
  TB, Pneumonia, Pulmonary Edema, Effusion
- **Nodule Detection**
  AI-powered early detection of lung nodules
- **Fracture Detection**
  Rib fractures, clavicle fractures
- **Cardiomegaly Detection**
  AI analysis of heart size & lung patterns

MSK X-Ray:

- **Fracture Detection**
  Bone fractures in hands, legs, and joints
- **Scoliosis Angle Measurement**
  Automated spinal curvature analysis
- **Joint Space Analysis**
  AI detects arthritis progression



mCT – AI for CT Lung, Brain & MSK Interpretation

mCT is a deep-learning AI designed to detect, segment, and classify critical findings in CT Lung, Brain, and Musculoskeletal (MSK) imaging.

CT Lung AI Features

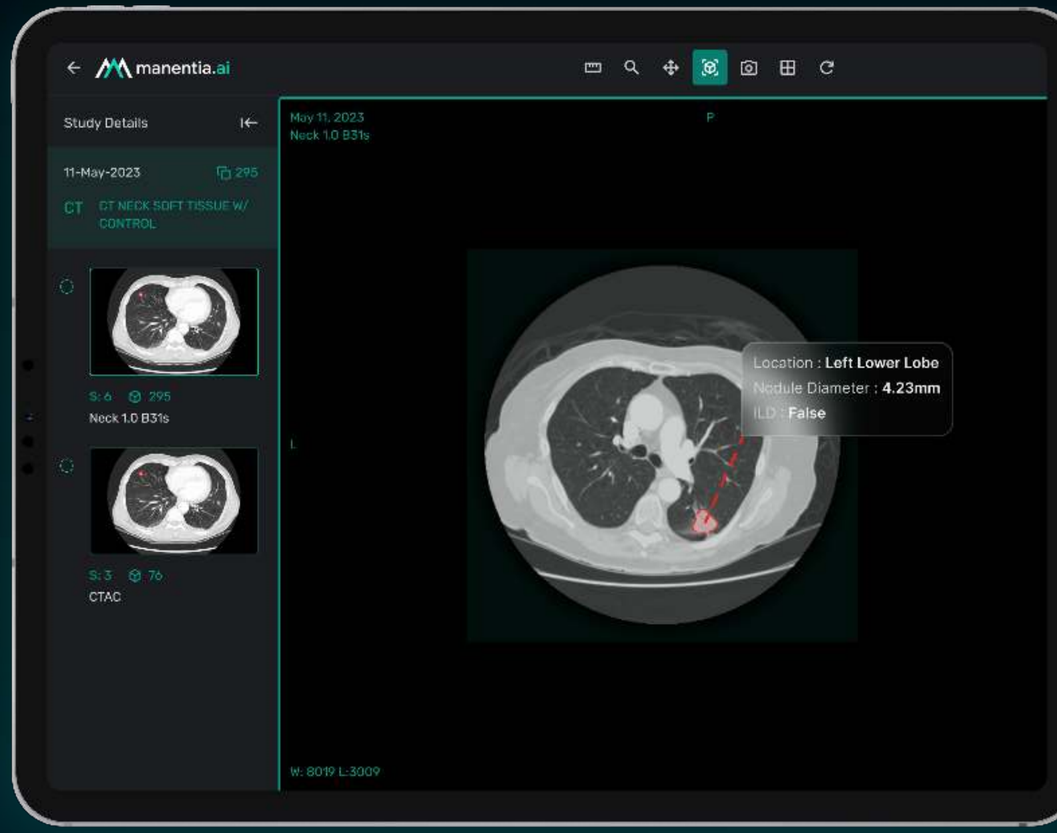
- **Pulmonary Nodule Detection**
  Identifies nodules with size, volume & density classification
- **Lung Abnormalities**
  Detects fibrosis, ILD, emphysema, pneumonia, pleural effusion
- **Coronary Artery Calcium Scoring**
  Automated risk assessment for cardiovascular diseases

CT Brain AI Features

- **Stroke Detection**
  Identifies ischemic & hemorrhagic strokes
- **Brain Tumor Segmentation**
  Detects gliomas, meningiomas, and metastases
- **Hemorrhage & Edema Detection**
  Automates critical emergency findings

CT MSK AI Features

- **Bone Fracture Detection**
  Identifies complex fractures & dislocations
- **Spinal Analysis**
  Detects herniated discs, vertebral compression fractures



mDX – AI-Enabled Tele-Radiology Workflow

mDX is an end-to-end tele-radiology platform that enables hospitals & diagnostic centers to seamlessly transmit and report scans using AI-powered assistance.

Key Features

AI-Enhanced Workflow Management

Auto-prioritization of urgent cases

Automated Report Generation

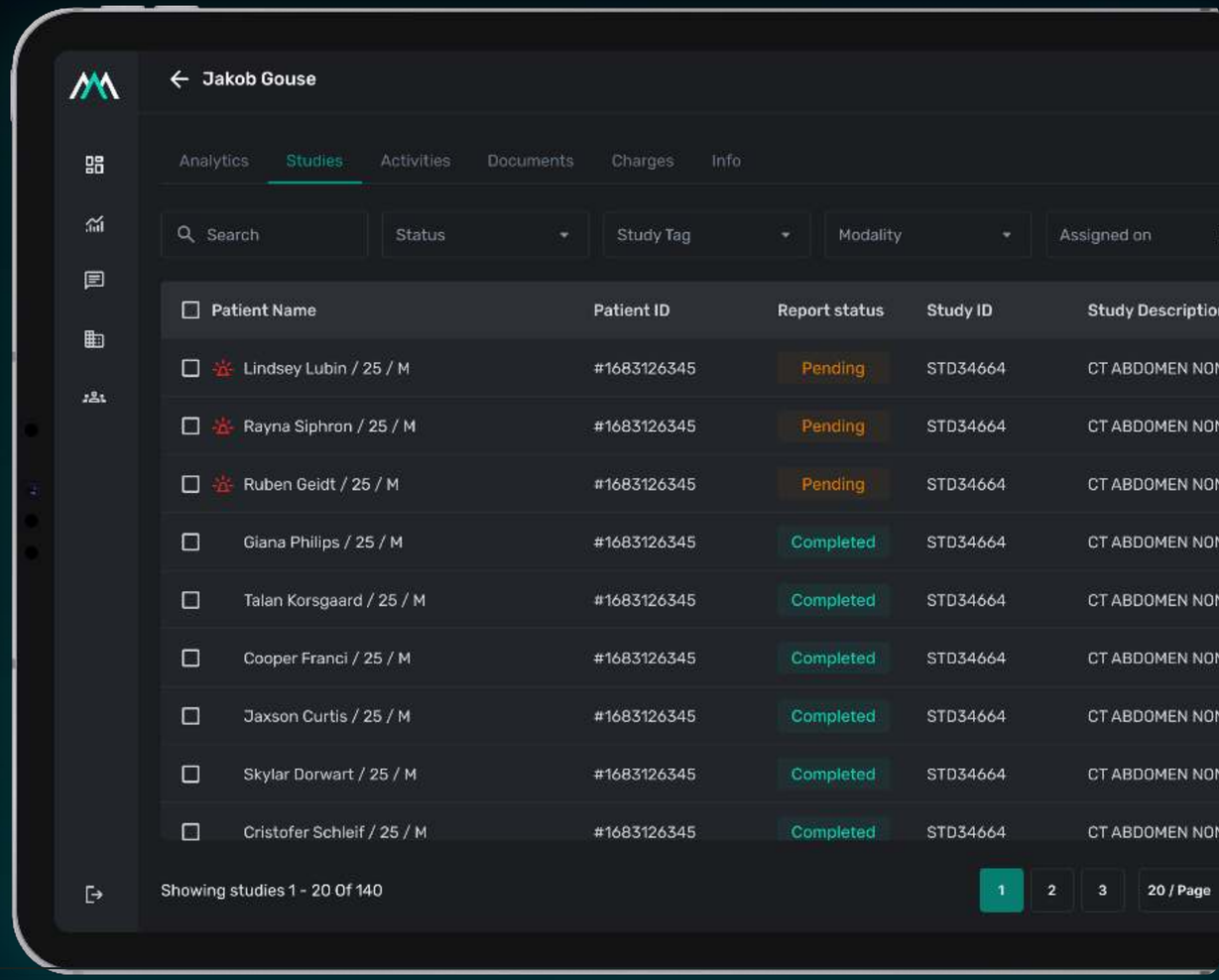
AI generates structured reports for radiologists

DICOM Data Sharing

Secure cloud-based sharing for real-time collaboration

Multi-Radiologist Review

Enables double reporting for quality assurance



mMR – AI for MRI Brain & Spine Analysis

mMR provides AI-assisted interpretation of MRI Brain & Spine imaging, aiding in neurological and musculoskeletal diagnoses.

MRI Brain:

Stroke Detection

Early ischemic stroke and hemorrhage detection

Brain Tumor Analysis

AI-driven tumor segmentation & volume estimation

Neurodegenerative Disorders

Alzheimer's, Parkinson's, Multiple Sclerosis detection

MRI Spine:

Disc Herniation Detection

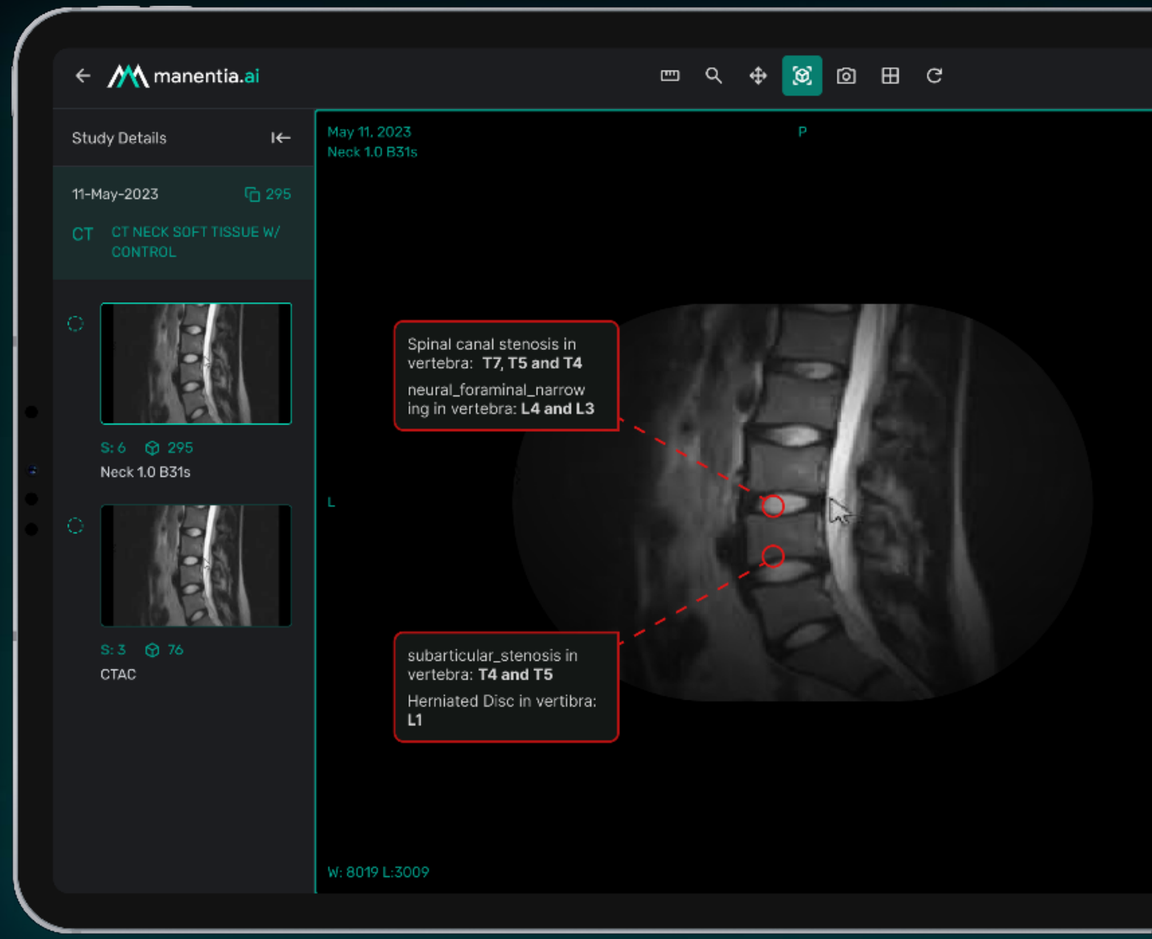
Identifies bulging and compressed discs

Scoliosis & Kyphosis Measurement

AI-automated spine curvature assessment

Degenerative Disc Disease Analysis

Detects spinal arthritis & nerve impingement



Business & Revenue Model

1 Monthly/Annual AI-PACS & AI reporting charges

Subscription Model

2 AI-assisted reporting charges per CT/MRI scan.

Per-Scan Revenue

3 Custom AI solutions for large hospital networks

Enterprise Licensing

4 AI-powered TB screening & cardiac risk assessment

Public Health Programs

Why Hospitals & Diagnostic Centers Choose Manentia AI?

Improves Reporting Speed by 50%

Faster turnaround times for hospitals

Reduces Error Rate by 30%

AI-assisted findings enhance accuracy

Scales to Any Hospital Size

Cloud & on-premise deployment options

Seamless PACS Integration

Works with existing radiology systems

Expands Tele-Radiology Access

Enables expert reporting in remote regions

Regulatory Compliance

CDSCO/ICMR - Medical Device Class B approval for testing

Licence No. : MFG/TL/MD/2023/000233.

HIPAA Compliance

CE - Certificate of Compliance (Provisional)

Certificate No.: CE-1984

ISO/IEC 27001:2013

Certificate Number: 2021120956

ISO 132485: 2016

Certificate Number: 2021120955

- CE – Certificate by EU MDR
- FDA Approval for CT Lung Cancer Analysis

Early Traction

SRI JAYADEVA INSTITUTE OF CARDIOVASCULAR SCIENCES & RESEARCH

LIFE CARE
PATHOLOGY & DIGITAL X-RAY

Pixel Plus
DIAGNOSTICS

ARADHYA
MRI DIAGNOSTIC

innova IMAGING TECHNOLOGY

Supra
Diagnostic

सर्वे सन्तु निरामयः

लाईफ केअर

SANGHA
HOSPITAL

HODAN
HOSPITAL

AFRIGLOBAL
MEDICARE
Inspiring Africa

DUNAKHE
MULTI SPECIALITY HOSPITAL

Get in Touch:

Bring AI-powered efficiency to your hospital & diagnostic center.

Future of Radiology – Faster, Smarter, AI-Driven Imaging!

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