Gmi - Gnu Medical Imaging

Gmi is a cutting-edge medical imaging software designed to revolutionize healthcare. Gmi leverages the power of AI to deliver accurate diagnoses and assist in patient care.

Content Table

Tooth Decay Detection

Accurately identifies cavities using dental X-rays, enabling early intervention and preventing further damage.

Bone Fracture Detection

Provides rapid and reliable identification of bone fractures in scans, supporting efficient diagnosis and treatment planning.

Brain Tumor Detection

Leverages advanced AI to pinpoint brain tumors using MRI scans, facilitating timely diagnosis and appropriate treatment strategies.

Brain Stroke Detection

Assists in identifying stroke signs in CT scans, enabling swift medical attention and potentially saving lives.

Breast Cancer Detection

Empowers early breast cancer detection, increasing the chances of successful treatment and improving patient outcomes.

Blood Cell Analysis and Acute Lymphoblastic Leukemia Detection

Analyzes blood cell data with precision to detect leukemia, allowing for early diagnosis and targeted therapies.

Lung Cancer Detection

Utilizes AI to support lung cancer detection in scans, enabling prompt intervention and personalized treatment plans.

Kidney Disease Detection

Identifies kidney disease markers (tumor, cyst, stone, normal) in scans, aiding in diagnosis and guiding treatment strategies.

Alzheimer's Risk Detection

Evaluates scans for early signs of Alzheimer's risk, enabling proactive interventions and potentially delaying disease progression.

DICOM Tools

Provides comprehensive DICOM image processing tools, supporting efficient data management and analysis in healthcare settings.

Advantages

Accuracy

Gmi's AI algorithms deliver highly accurate results.

Efficiency

Gmi streamlines the diagnostic process.

Accessibility

Gmi is available as free software.

Tooth Decay Detection

Process

Gmi analyzes dental X-rays.

It identifies areas of decay.

Benefits

Early detection of cavities.

Preventive treatment options.

Bone Fracture Detection

1

Image Analysis

Gmi analyzes bone scan images.

2

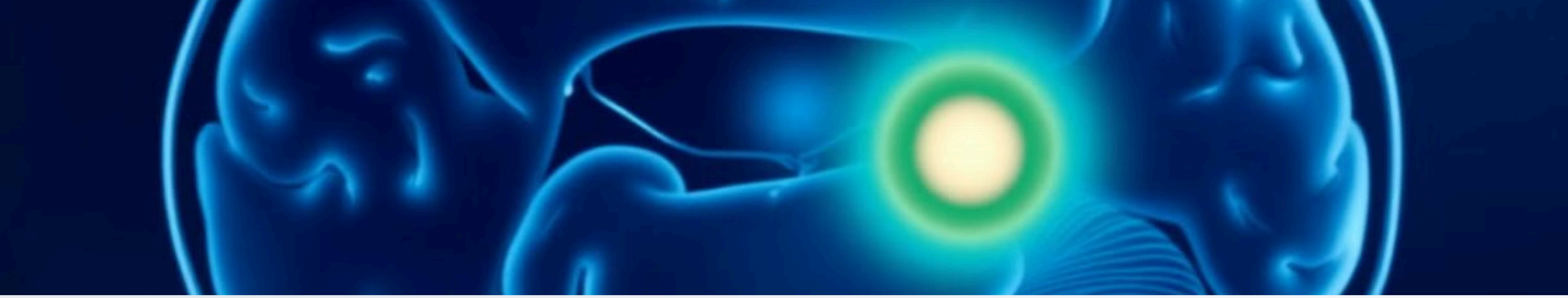
Fracture Detection

AI identifies bone fractures.

3

Report Generation

Gmi generates a detailed report.



Brain Tumor Detection

1

MRI Analysis

Gmi analyzes brain MRI scans.

2

Tumor Identification

Gmi identifies potential tumors.

3

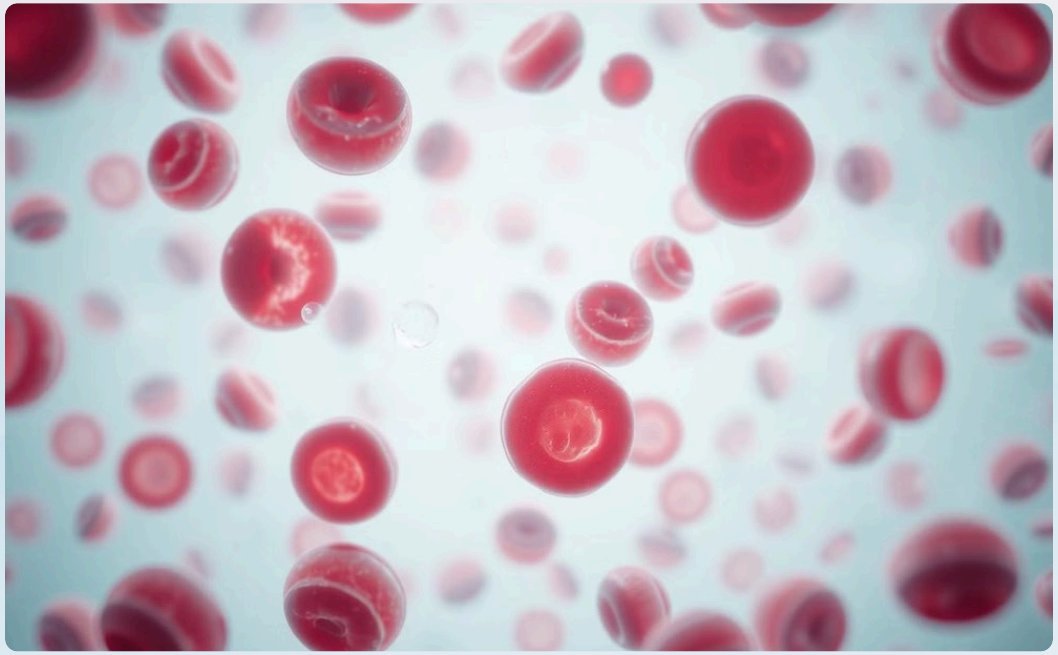
Expert Review

Gmi assists in diagnosis.

Brain Stroke Detection

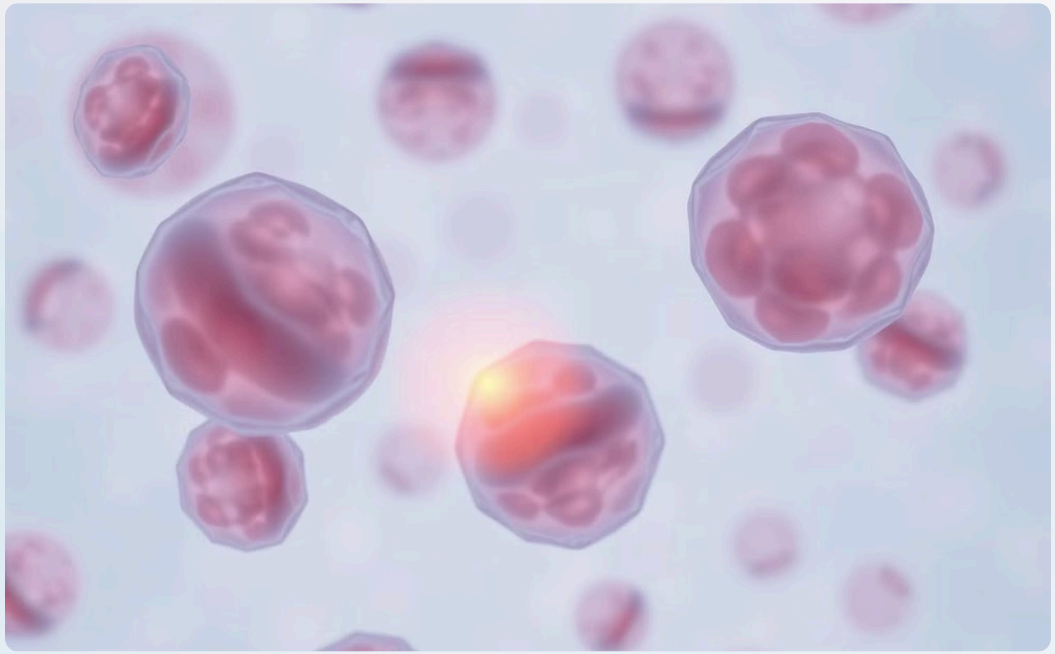
Step	Description
1	Analyze CT scans.
2	Identify stroke symptoms.
3	Assist in diagnosis.

Blood Cells Data and Acute Lymphoblastic Leukemia Detection



Normal Blood Cells

Gmi analyzes blood cell images.



Leukemia Detection

Gmi identifies abnormal cells.

Breast Cancer Detection

1

Mammogram Analysis

Gmi analyzes mammogram images.

2

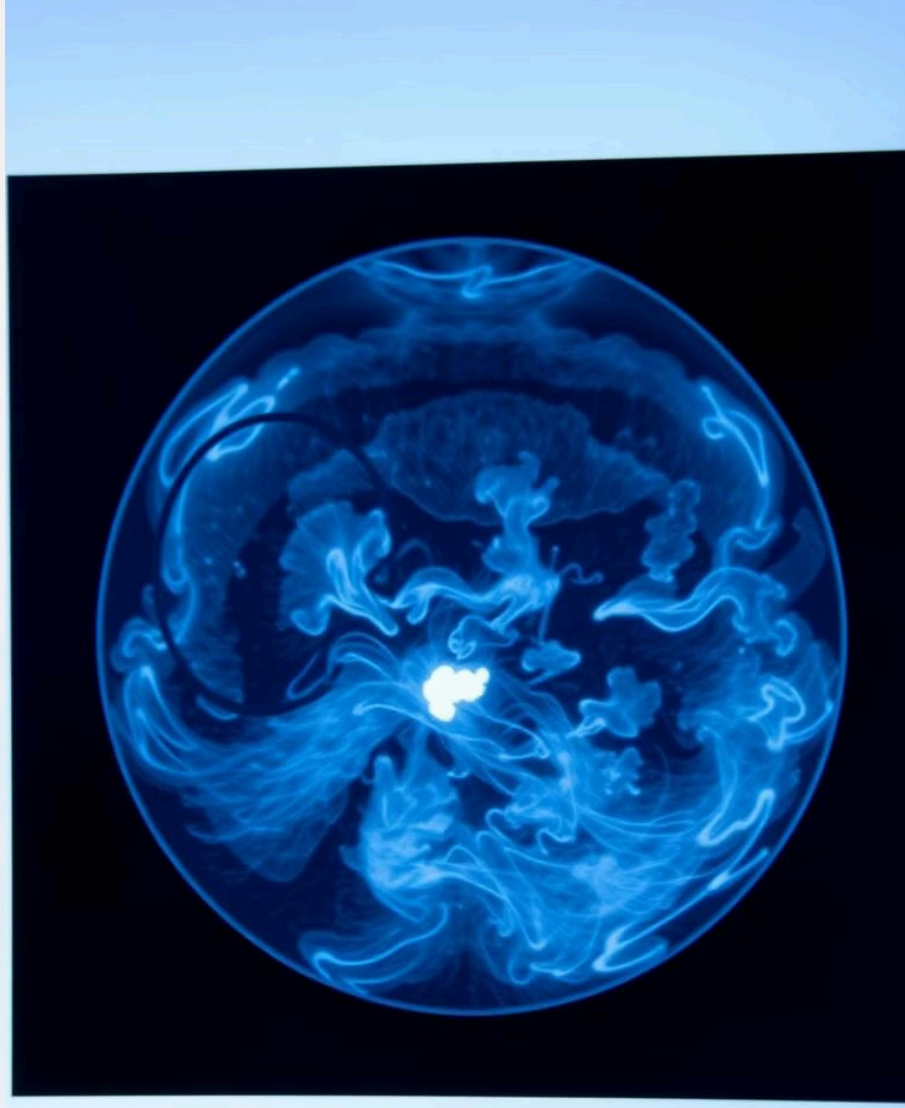
Suspicious Areas

AI detects suspicious areas.

3

Early Detection

Gmi supports early diagnosis.



Kidney Disease Detection

Tumors

Gmi can identify tumors in kidney scans.

Cysts

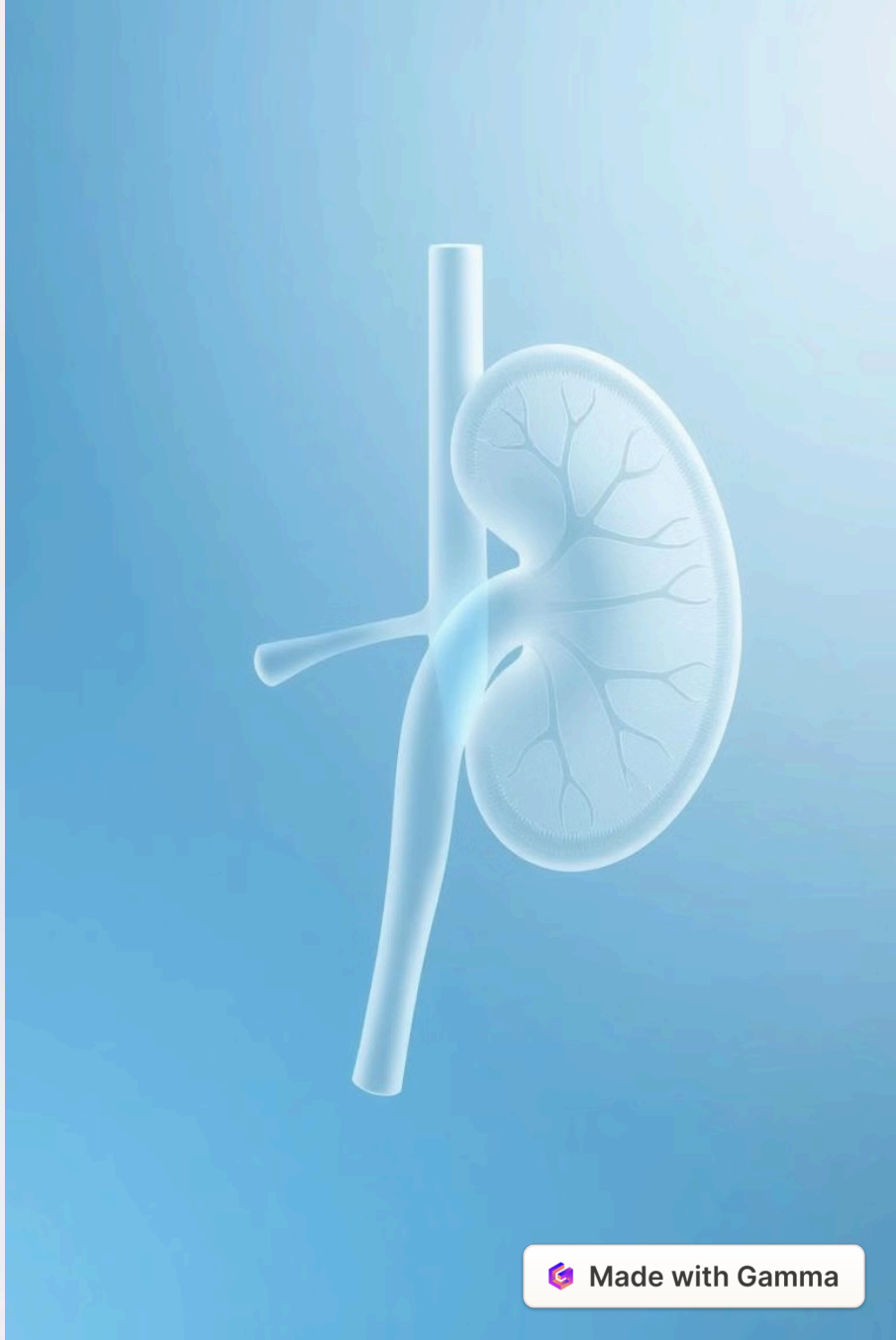
Gmi can identify cysts in kidney scans.

Stones

Gmi can identify stones in kidney scans.

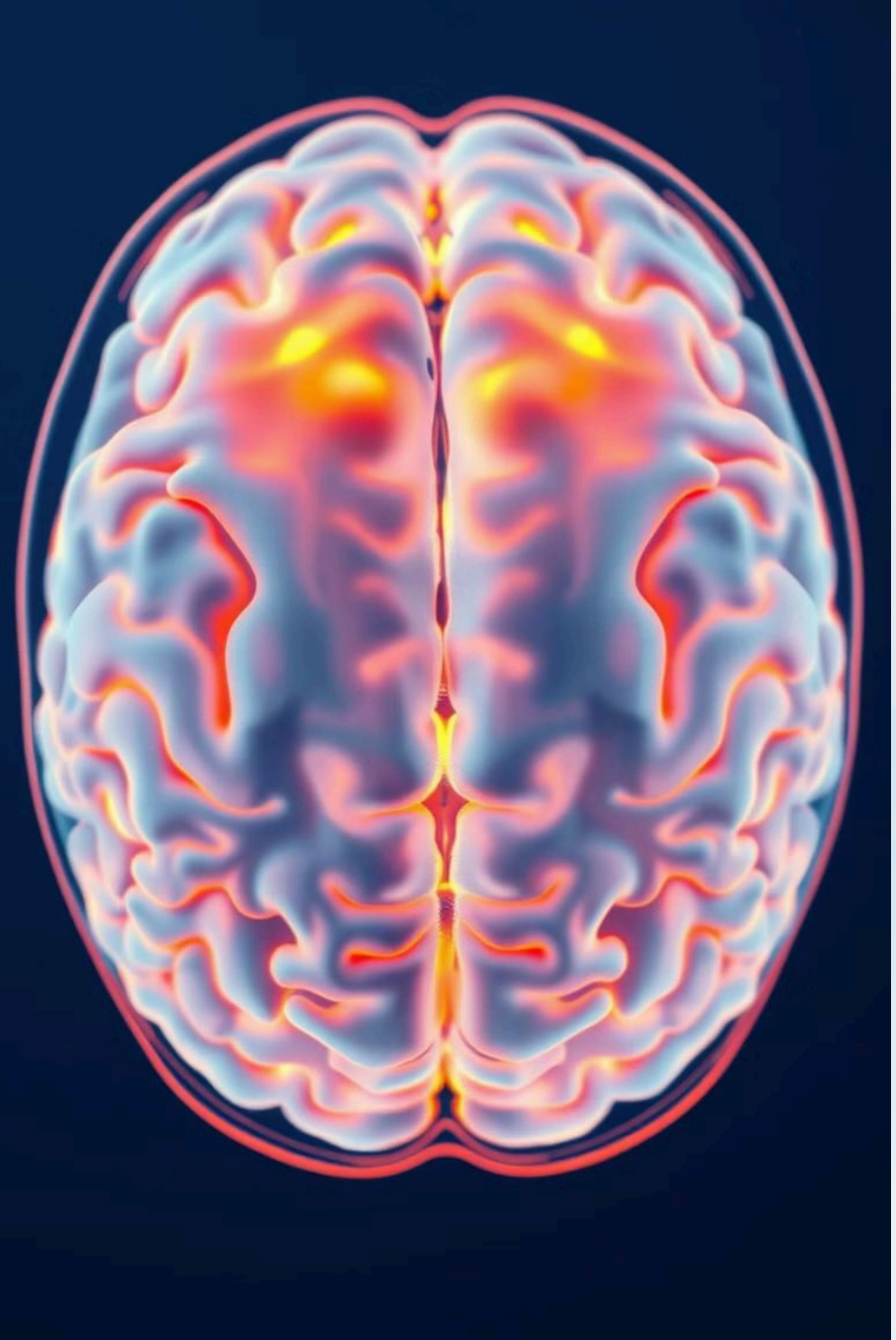
Normal Tissue

Gmi can identify normal tissue in kidney scans.



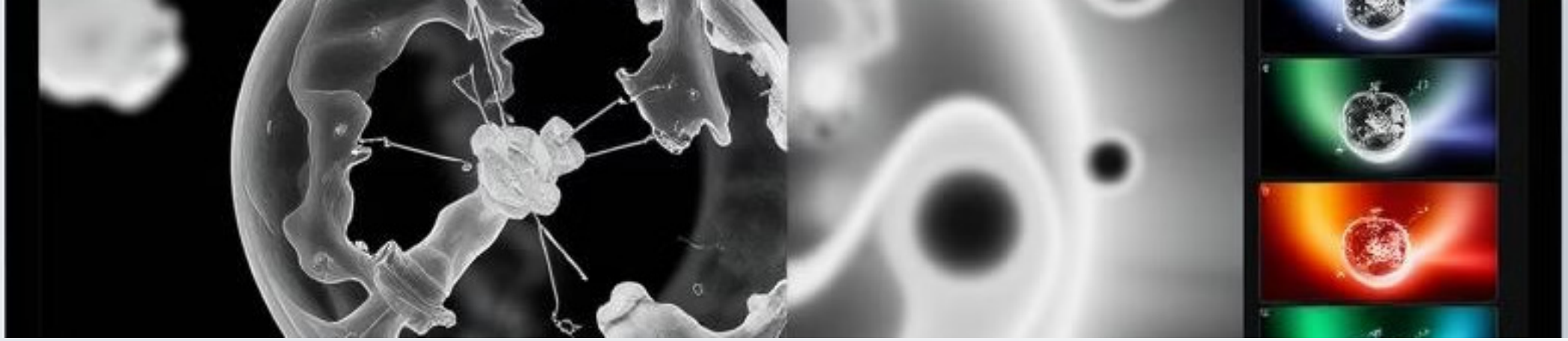
Lung Cancer Detection

Gmi uses advanced AI algorithms to analyze lung CT scans and identify potential signs of lung cancer. By detecting suspicious nodules and other abnormalities, Gmi helps medical professionals make informed diagnoses and develop personalized treatment plans.



Alzheimer's Risk Detection

Gmi helps identify individuals at risk of developing Alzheimer's disease. By analyzing brain scans and other relevant data, Gmi provides valuable insights to support early diagnosis and personalized treatment plans.



Dicom Tools

Gmi provides tools for visualizing DICOM images in black and white, or with different colors for more detailed analysis.

Gmi: Open-Source Medical Imaging Software

Website

http://kooshayeganeh.github.io

GitHub

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