Potential Injuries in CT Scans of Trauma Patients

Problem Area

My area of interest is detecting severe injuries and active internal bleeding in abdominal organs, particularly focusing on blunt force abdominal trauma. This presents a critical challenge in emergency medicine as prompt diagnosis is crucial for effective treatment.

Emergency medicine doctors and nurses

ED administrators

Surgeons

Radiologists

Patients

Data Source

Overview Data Code Models Discussion Leaderboard Rules Team Submissions **Late Submission** ···

Dataset Description

The goal of this competition is to identify several potential injuries in CT scans of trauma patients. Any of these injuries can be fatal on a short time frame if untreated so there is great value in rapid diagnosis.

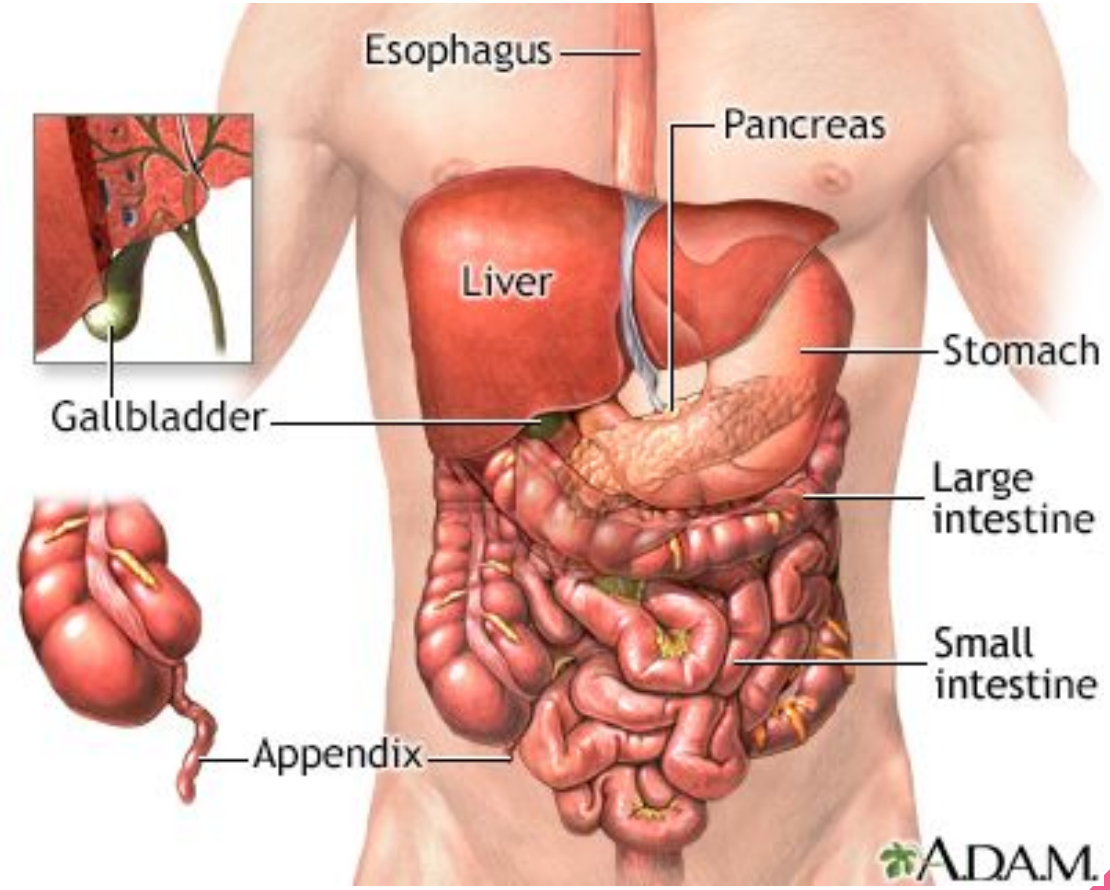
This competition uses a hidden test. When your submitted notebook is scored, the actual test data (including a full length sample submission) will be made available to your notebook.

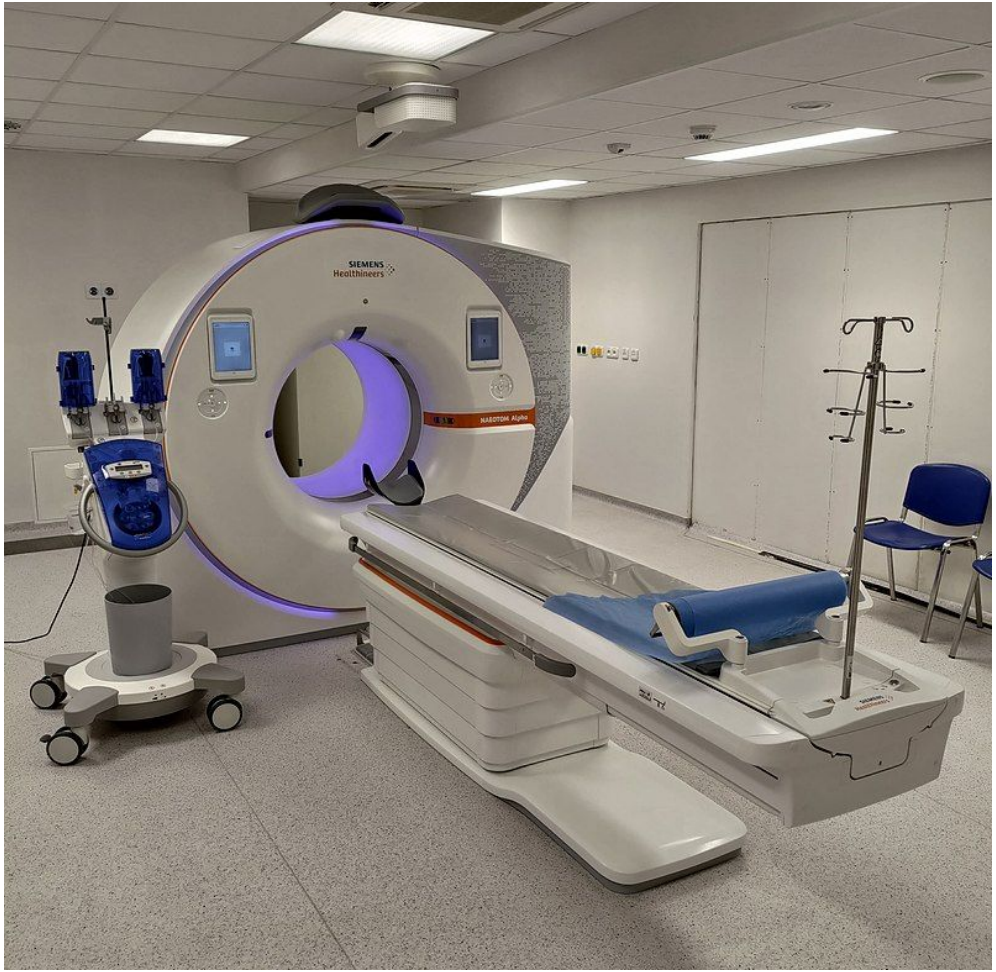
Files

Files
1500869 files

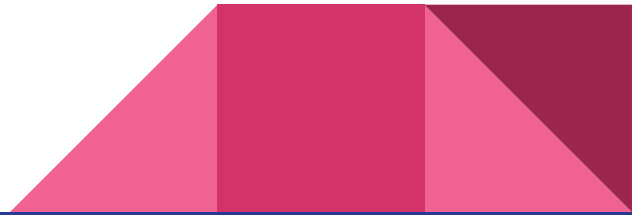
Size
460.34 GB

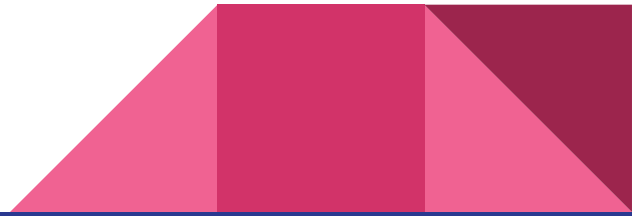
Type
dcm, nii, csv


Esophagus
Pancreas
Liver
Stomach
Gallbladder
Large intestine
Small intestine
Appendix
A.D.A.M.


SIEMENS
Healthineers

Impact: The potential impact of this project is significant. Efficiently detecting and classifying injuries can lead to expedited treatment, potentially saving lives in emergency situations. Additionally, it can reduce the overall cost of healthcare by minimizing the time spent on diagnosis and treatment planning. This could translate to substantial savings in healthcare expenses, as well as an improvement in the quality of life for affected individuals.



Challenges

1. Scaling
2. 3D objects
3. Finding best model