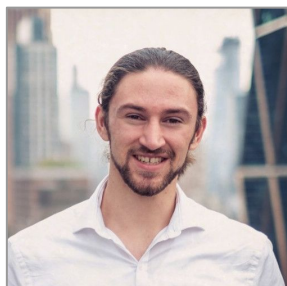


OpenVessel Presenters



Leslie Wubbel
CEO & Founder



Nathaniel Leies
Business Dev &
Marketing



Greg Glatzer
CTO



Rishyak Panchal
COO

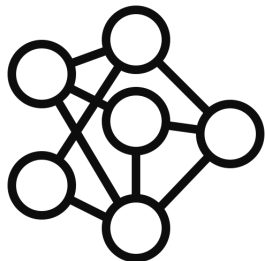
OPENVESSEL

OpenVessel LLC is an
AI research consultant.

We provide *data science
consultation and solutions
to academic physicians*
to power their AI research.



OPENVESSEL Collaborative Framework



Collaboratively
*engineer AI / ML
solutions* with
investigators.



Collaboratively *design
experiments*, and
oversee the entire
experiment process.



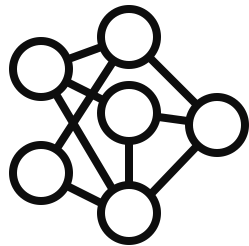
*Co-author impactful
research* and successful
funding applications.



Establish a foundation
of data-science
research upon which
*our clients can build
their success.*



OPENVESSEL Services



Custom AI Model

- Engineering Meetings
- Fixed # of collaboration hours
- Slack instant messaging
- Report of methodologies and result metrics



Custom Colab Notebook

- Fixed # of collaboration hours
- Report on methodologies and result metrics



One-On-One Consulting

- Advice and troubleshooting
- Progress tracking over multiple sessions
- Easy integration with into Collab Project



USE CASE

DEEP LEARNING FOR LIVER CANCER

Client Ask

Create a data model that will continue Dr. Jeph's research on segmentation/data modeling. Interested in AI for the liver.

What OpenVessel Offered

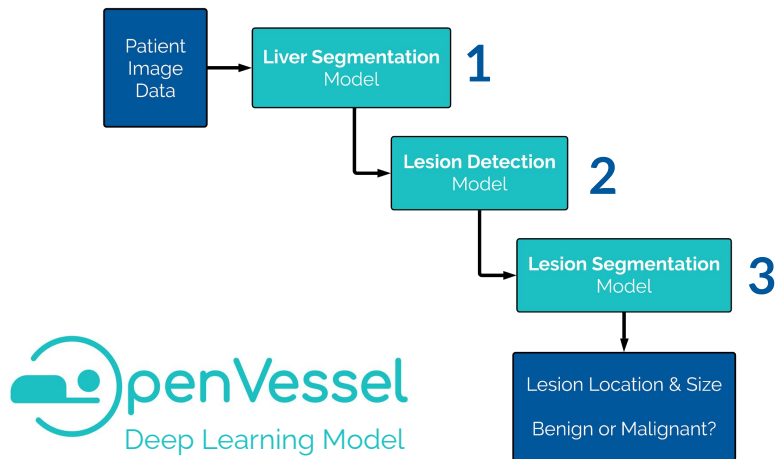
A **deep learning model to segment and classify liver cancer**. Access to openly available liver CTs and codebases provided a starting point.



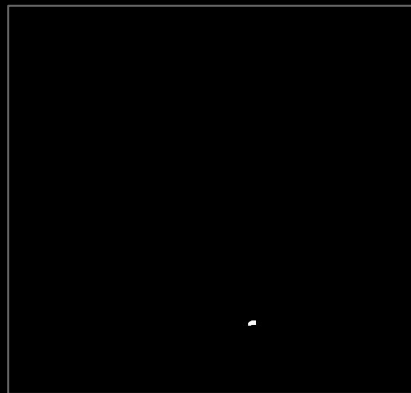
Dr. Sunil Jeph

Director of Computer Vision
Research, CRRG

Assistant Professor of Radiology
Penn State College of Medicine



1

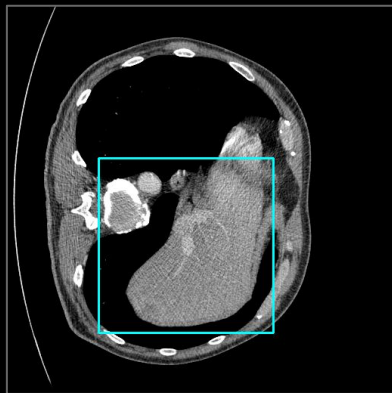


Liver identify by Radiologist

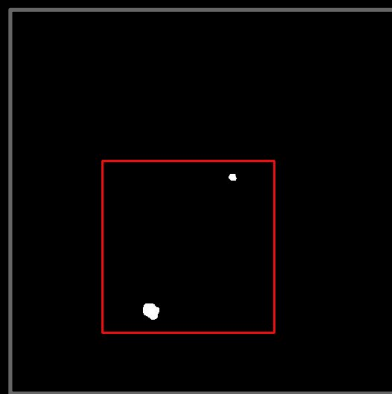


Deep Learning Predicted Result

2

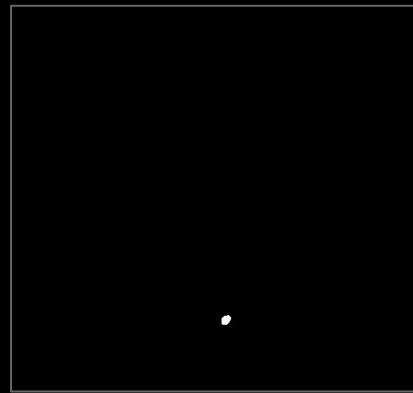


Deep learning detects lesions

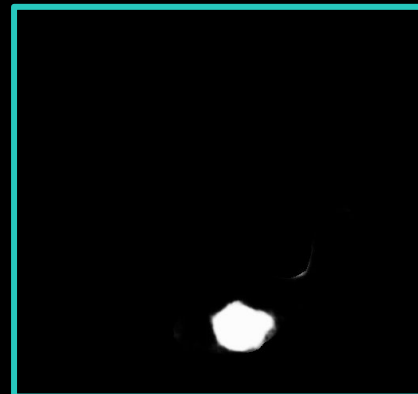


Deep learning detects lesions

3



Lesion identified by radiologist

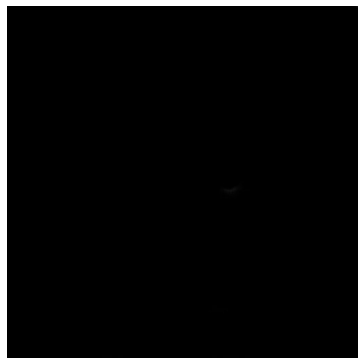


Deep Learning Predicted Result

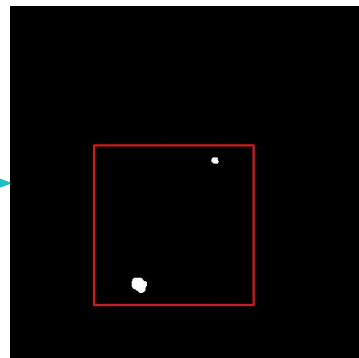
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Deep Learning Model

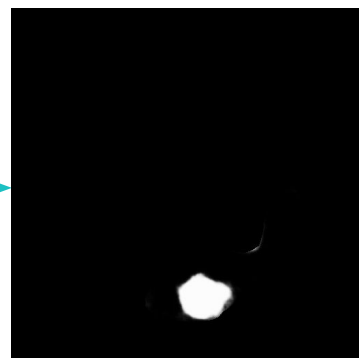
VISUAL OUTPUTS



Predicted Liver Mask



Detected Lesions



Predicted Lesion Mask

	Technical Description	DICE SCORE	Time
Liver Segmentation	Liver mask predicted by the model & segmented out of the region of interest (ROI) in the patient.	0.8233	4.11 m
Lesion Detection	Network classifies areas of interest in liver mask as positive (containing lesions) or negative.	0.68	1.90 m
Lesion Segmentation	The positive lesions are segmented out as results.	0.71	4.36 m



Contact us & put us to work!

OPENVESSEL

LESLIE WUBBEL

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