Asset Title *	Lung Cancer Detector
Content Creator *	Jesus Gomez
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for Content *	
Industry Focus *	Health Care
Describe	A prominent health institution, specialized in cancer, is looking for a solution to assist
the Problem	doctors on identifying lung cancer through enhanced color CT scans.
Statement *	
What are you trying	Currently CT Scans are one of the most valuable tools to diagnose lung cancer. However,
to Solve for	understanding and interpreting the CT Scans is a challenging activity that has to be
(Business Use Case)	performed by experienced professionals, who still might miss key information. The business
*	case for this problem is to be able to assist health care providers by enhancing or augmenting
	the CT Scans to find anomalies and reduce the rate of missing critical findings.
Goals / Metrics *	Goals:
Goals / Metrics *	
	1. Build a Pipeline to extract and transform annotated CT Scans into point clouds.
	2. Use the point clouds to train an object segmentation model to detect lung anomalies.
	3. Implement a UI to read CT Scans (DICOM) and display a color-coded image with
	regions of interest for the doctor.
Expected	Exploratory data analysis
Deliverables *	Models
Denverables	User Interface
Are Data Sets	Solution with Demo and Final Presentation Yes
available? *	res
Data Sets List	Please download the data from
(Please attach Zip	Original Dataset:
files)	Data from The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative
ines)	(IDRI): A completed reference database of lung nodules on CT scans (LIDC-IDRI) - The Cancer
	Imaging Archive (TCIA) Public Access - Cancer Imaging Archive Wiki
	Curated Dataset with cloud points already extracted:
	Data - Grand Challenge (grand-challenge.org)
Links to the	N/A
Websites to Scrape	
the data needed *	
Additional Notes	