



VINBRAIN



MIDL 2021

# GOAL: Gist-set Online Active Learning for Efficient Chest X-ray Image Annotation

July 9, 2021

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1. VinBrain

2. VinUniv

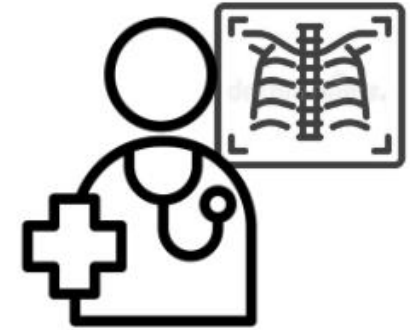
3. VinMec

4. HCM<sup>®</sup>UNIVERSITY MEDICAL CENTER

# Standard Approach to Radiograph Annotation

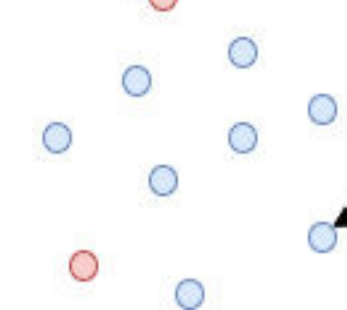


Medical Report  
Keywords Extraction



Expert  
Annotation

Informative  
Data Points

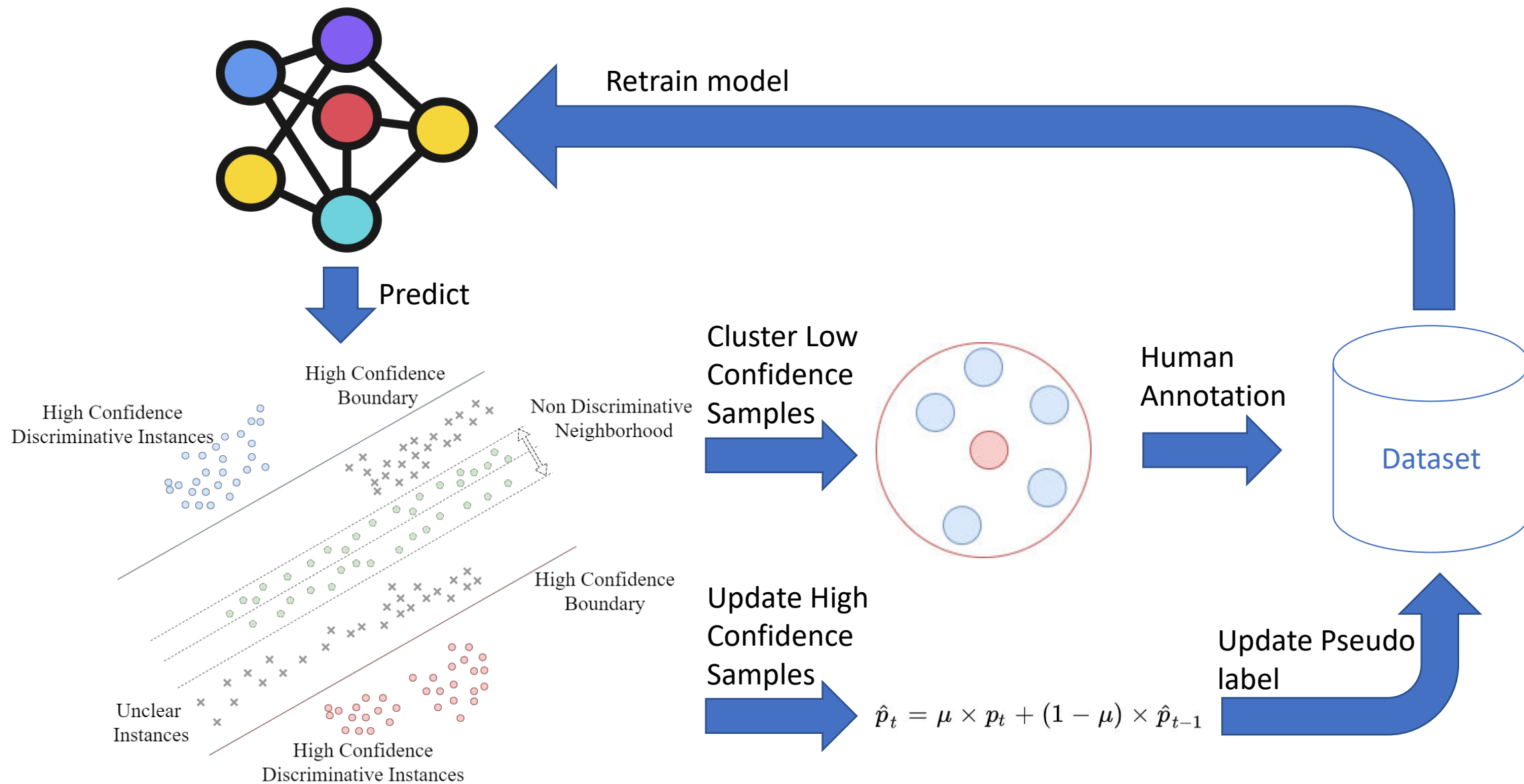


Informative  
Annotation

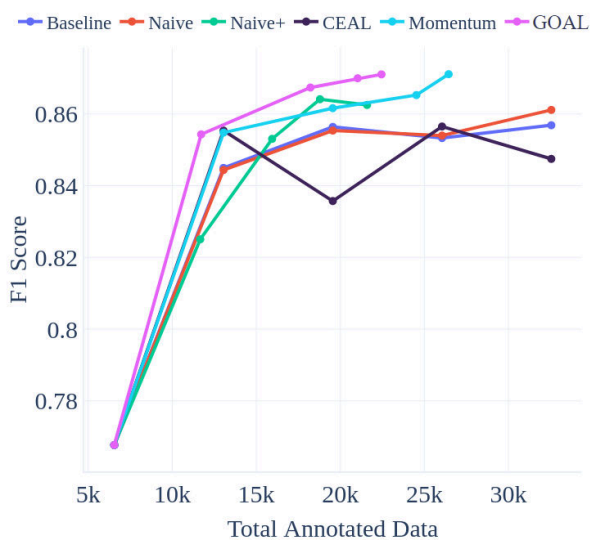
Non-Informative  
Data Points



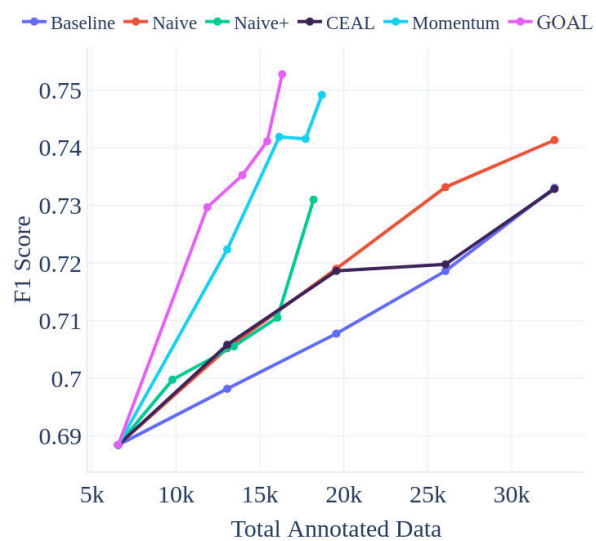
# GOAL



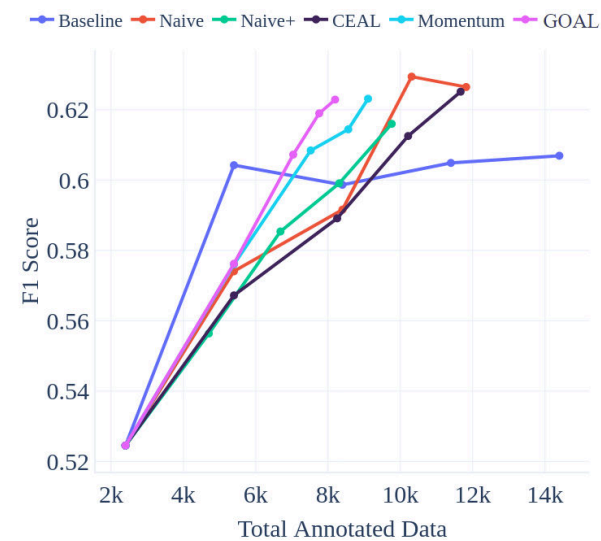
# Experimental Results



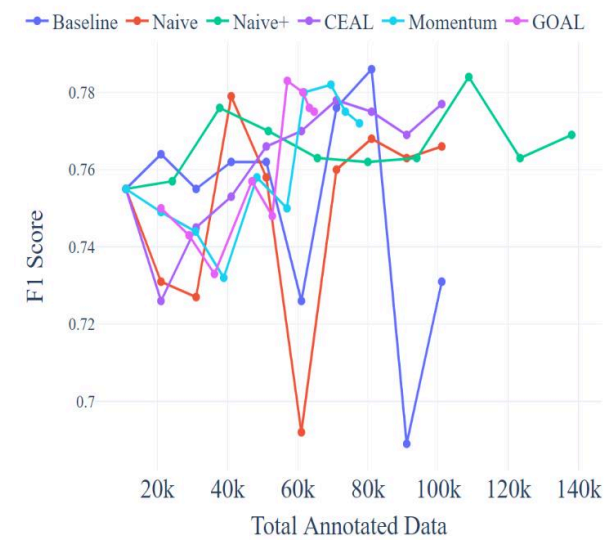
a. Airspace Opacity



b. Lung Lesion



c. Pneumonia



d. Pleural Effusion

THANKS FOR WATCHING