

**CLINICIAN-FRIENDLY, INTERPRETABLE
COMPUTER-AIDED
DIAGNOSIS SYSTEM TO SUPPORT AND
OPTIMISE CLINICAL DECISION MAKING
DETECT SUSPICIOUS FINDINGS IN VIDEO CAPSULE
ENDOSCOPY (VCE)**

Innovative platform for the development and
adoption of reliable AI-based solutions for healthcare



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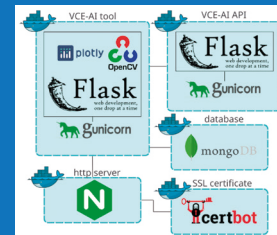
DETECT SUSPICIOUS FINDINGS IN VIDEO CAPSULE ENDOSCOPY (VCE)

THE STARTING PROBLEM



Capsule endoscopy produces lengthy video footage, making it time-consuming and laborious for doctors to review and analyse

THE PILOT SOLUTION



A web-based solution powered with AI functionalities accelerates the review process via extracting

A doctor or a staff member uploads a capsule endoscopy video to the web application.

The doctor starts to review the capsule endoscopy video. While having the set with suspicious frames generated by the AI.

The doctor interacts with the AI findings, annotates new findings, inserts comments and, finally makes the final diagnosis.

RESULTS AND IMPROVEMENTS



The whole process of reviewing a capsule endoscopy video has been enhanced and optimised via allowing the collaboration of the doctor with the AI

the AI executes to infer the frames of interest along with the respective predicted pathology.

The web application provides to the reviewer a user-friendly video review functionalities one of which is the display of the AI inference outcomes, i.e., the suspicious findings.

All information created by the reviewer, i.e., comments, annotations, and the final diagnosis, are saved in the application for future reference.