medDARE

VIDEO DATA ANONYMIZATION

■ CLIENT'S PROFILE

Country: USA

Size: 50,000+ employees worldwide

Industry focus: Medical technologies corporation working in surgical, orthopedics and neurotechnology verticals.

■ PROJECT GOAL

Development of software that automatically detects different stages of surgeries in the operating room (OR). In order to guarantee the proper anonymization of personal health information (PHI) within collected video data, which may include personnel and patients' faces, their reflections, tattoos, birthmarks, as well as screens, nametags, or any other identifying elements, it is crucial to establish a robust video anonymization procedure.

Such a process ensures compliance with the regulatory standards set forth by European and US authorities.

■ PROJECT DESCRIPTION

medDARE collected videos from multiple hospital sites and needed software to automatically detect faces and screens and blur them. Computer screens, documents, signage, location indicators and other details constitute personal data that can lead to privacy breaches.

As both open source and commercial anonymization tools were not covering project's needs, thus in order to identify, track and mask any moving person or static elements, medDARE developed its own tool for video data anonymization.

After initial automatic anonymization is completed, manual quality assurance was done via the team of quality managers in open-sourced software CVAT. Data was stored in the medDARE and client's servers in the EU and US, and deleted after anonymization was finalized and the video was approved by the client.

PROJECT WORKFLOW & TEAM ASSIGNED
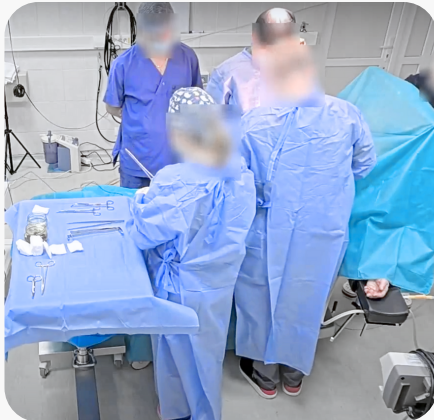
DURING THE PROJECT, MEDDARE'S VIDEO ANONYMIZATION TOOL WAS USED. IT HAS THE FOLLOWING OPTIONS:

- Manual and dynamic redaction
- Face, full body and object blur options
- Background and foreground redaction
- Either blur or coloring (black, gray etc.) are possible
- Blur sizing and shape drawing
- Opacity control

THE WORKFLOW AND QUALITY ASSURANCE OF THE VIDEO ANONYMIZATION PROCESS AT MEDDARE LOOKSED LIKE THE FOLLOWING:

On Quality Manager's (QM) side:

- Ensuring that all development tasks meet quality criteria through the test planning, test execution, quality assurance, and problem tracking;
- Providing training sessions for employees;
- Monitoring the quality of each team member.

On Operations Manager's (OM) side:

- Understanding customer needs and requirements in order to develop and maintain effective quality control process;
- Coordinate activities to meet the required standards of quality;
- Setting deadlines and managing tasks;
- Controlling the quality of all current projects;
- Communicating with clients to make sure that both parties have the same understanding of the quality standards and project workflow.

PROJECT'S OUTCOME

Due to the project delivery, recorded surgical procedures will be used to train AI algorithms to detect each action in the OR: preparation for surgeries, surgery itself, post-op cleaning etc.

Besides this, thanks to the anonymization software provided by medDARE, time for video anonymization was reduced by 35% compared to the initial anonymization process.

As a result, medDARE helped the client keep the project on schedule, providing high-quality video data and data anonymization services.

CONTACT US TO LEARN MORE ABOUT MEDDARE & HOW IT CAN TRANSFORM YOUR AI PROJECT

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