

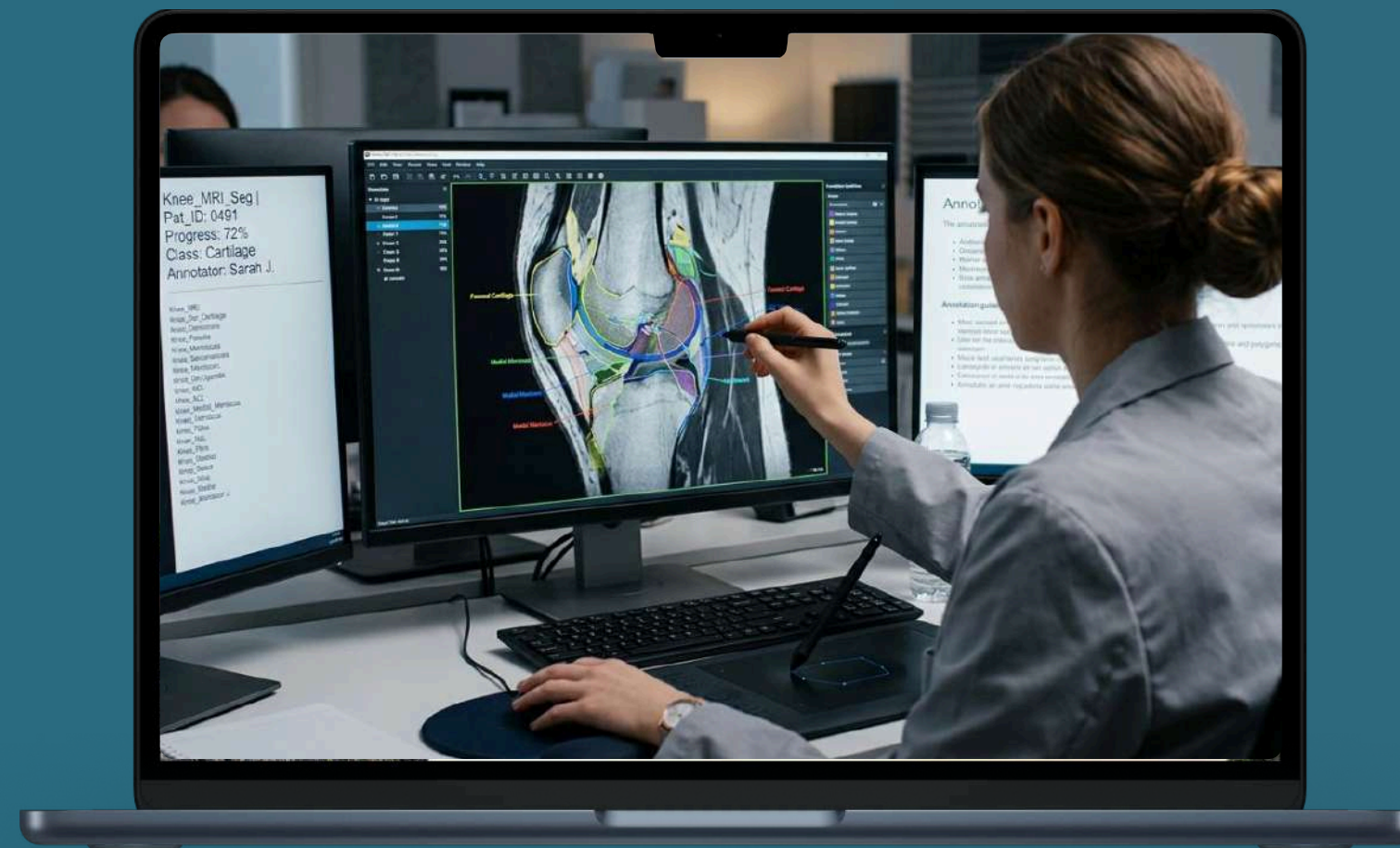


High-precision annotation of endoscopic images for AI model training

Model of cooperation: **Managed annotation services** 

Successfully completed **51 MRI annotation tasks**  , each consisting of **150–500 frames**  from 4 different angles, with parallel annotation to ensure higher 3D model accuracy.



France 

Cooperation Background

A French MedTech startup focused on developing advanced medical solutions required support in processing visual data for AI model improvement. Their work involved analyzing arthroscopic video frames and MRI imaging to support medical research and surgical applications.

Due to the sensitive nature of the data and the need for high annotation accuracy, the client sought a reliable outsourcing partner capable of handling complex medical datasets under strict confidentiality requirements.





CLIENT'S PROBLEM

The client needed precise annotation of arthroscopic video frames, specifically identifying and marking the tip of a surgical probe only in frames where it was clearly visible. The dataset included thousands of frames, requiring careful review and selective annotation.

Key requirements included:

- Extremely high annotation accuracy
- Ability to work with specialized tools such as CVAT and ITK-SNAP
- Compliance with NDA and secure data handling
- Validation of quality through trial tasks before full-scale collaboration

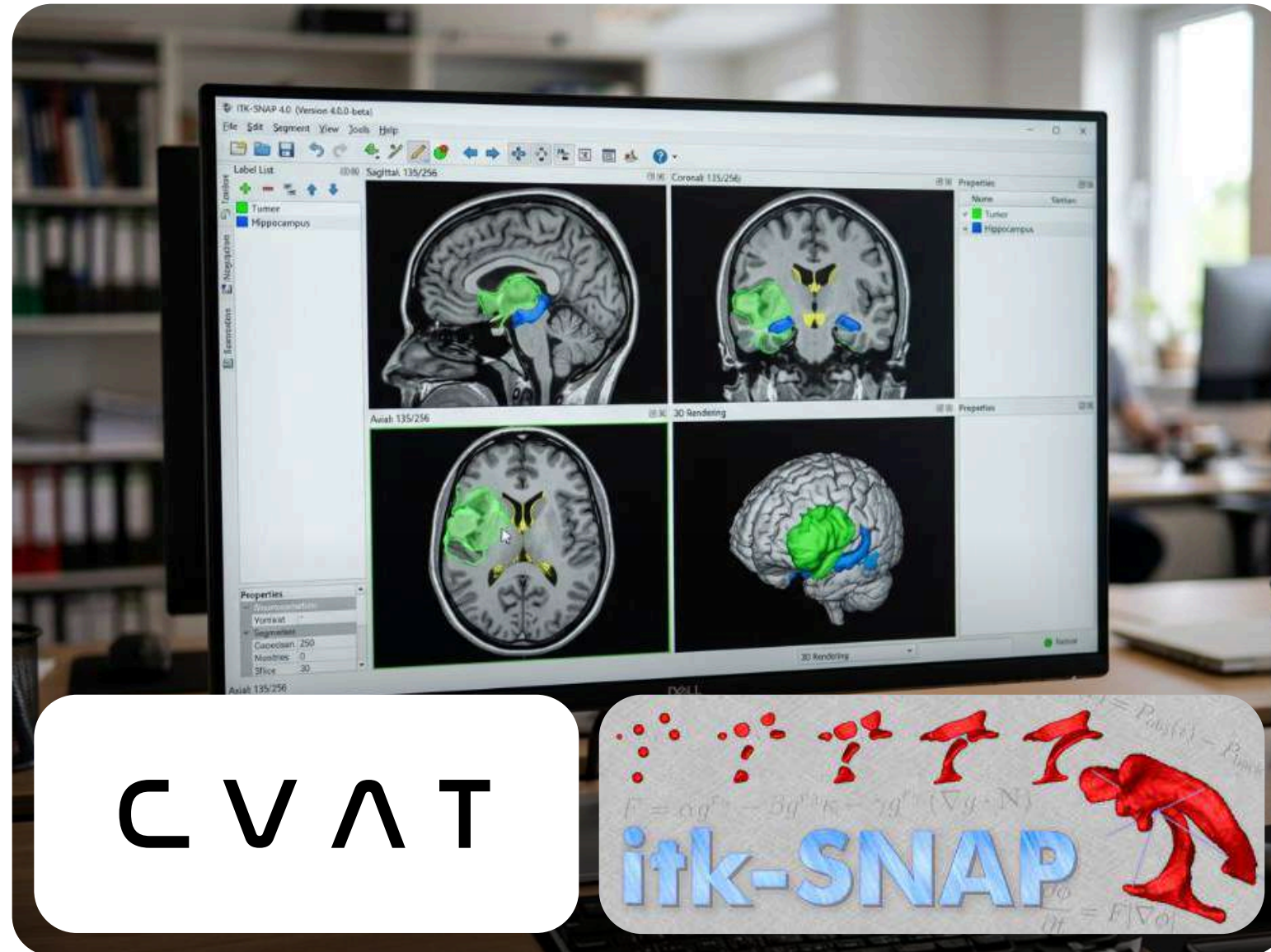


PROJECT CHALLENGE

The project required a deep understanding of medical imaging and the ability to interpret complex visual data. Identifying key points in arthroscopic videos is a highly detail-oriented task, where even small inaccuracies could affect downstream AI model performance.

Additionally, MRI segmentation tasks required annotators to understand the structure and characteristics of medical images, which significantly narrowed the pool of suitable candidates.

Ensuring consistent quality while scaling annotation efforts over time added another layer of complexity.



Mobilunity-BPO Solution

Mobilunity-BPO approached the project by carefully selecting annotators with relevant experience in medical imaging or a strong understanding of MRI data, along with experience with CVAT and ITK-SNAP annotation software.

The process included

- ✓ Conducting test tasks to validate candidate accuracy and attention to detail
- ✓ Training the selected team to work with ITK-SNAP and align with project-specific requirements
- ✓ Signing NDA agreements and ensuring secure handling of sensitive medical data

A managed service model was implemented, providing the client with a fully supported and scalable annotation team. This included

- ✓ Ongoing training and performance monitoring
- ✓ Weekly meetings with both the client and annotation team
- ✓ Regular workload planning and reporting
- ✓ Dedicated quality control processes to maintain high accuracy standards

Outcome

The collaboration resulted in consistently high-quality annotations that met strict medical standards. The team successfully handled both arthroscopic video annotation and MRI segmentation tasks, ensuring reliable data for AI model training.

The success of the initial phase opened opportunities for extended cooperation, with plans for long-term collaboration.

Over the course of three months, the client benefited from

- ✓ Stable and accurate annotation output
- ✓ Efficient communication and continuous process improvement
- ✓ A scalable team ready to support long-term needs

Few Words About Cooperation with Us



Accurate key point annotation in medical imaging is critical for model performance. Mobilunity-BPO provided a well-trained team that delivered consistent, high-quality annotations, helping us move forward with confidence.



Head of Research,

Clients Company (under NDA)

CONTACT US

Learn More How You Can Outsource Manual Data Annotation to Mobilunity-BPO

START THE PROCESS