

Case Study: Accelerating AI-Powered Healthcare Solutions with Databae

Overview

A healthcare AI company developing diagnostic tools faced challenges in annotating vast amounts of medical data, including X-rays, MRIs, and clinical texts. Manual Labelling was slow, expensive, and required high precision. To streamline the process, the company integrated **Databae's AI-powered data Labelling platform**, leveraging automation, **in-app quality control**, and **domain-specific annotation tools** to improve efficiency and accuracy.

Challenges

- 1. **High-Precision Labelling** Medical data annotation demands extreme accuracy to ensure reliable AI predictions.
- 2. **Skilled Workforce Constraints** Medical experts were needed for annotation, but their availability was limited.
- 3. **Time-Consuming Manual Labelling** Traditional annotation processes were slow, delaying AI model training and deployment.

Solution: Implementing Databae's AI-Powered Labelling System

The company adopted **Databae's intelligent workflow** to automate and optimize medical data Labelling. Key features utilized included:

- Medical Image Segmentation & Classification Efficient annotation of X-rays, MRIs, and CT scans with bounding boxes and segmentation tools.
- Named Entity Recognition (NER) for Clinical Texts Automating the extraction of key medical terms and patient conditions from records.
- AI-Powered Workflow & Levelling Mechanism Assigning complex tasks to expert annotators while automating simpler tasks.

• **Two-Way Swipe QC & Rectification Tools** – Ensuring high annotation accuracy with built-in validation and correction workflows.

Results

40% Faster Annotation Speed – AI-assisted workflows reduced manual workload, accelerating dataset preparation.

25% Cost Reduction – Optimized expert involvement and automated quality control minimized annotation costs.

Higher Model Accuracy – Well-labelled datasets improved AI models for disease detection by **15%**.

Scalability for Large-Scale Data – Serverless architecture allowed seamless scaling as new data was integrated.

Conclusion

By integrating Databae, the healthcare AI company **enhanced its data Labelling efficiency**, improved model accuracy, and reduced annotation costs. This enabled faster deployment of AI-powered diagnostic tools, ultimately benefiting patient care and medical research.

Looking to scale your AI-powered healthcare solutions? Try Databae today!