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A NEW ERA OF PATHOLOGY

AI-POWERED PRECISION DIAGNOSTICS FOR PATHOLOGY

PATHOLOGY NEEDS AN AI REVOLUTION

Today, manual microscopic evaluation of tissue samples by pathologists is the gold standard for diagnosing cancer as well as many degenerative, infectious and inflammatory diseases. Given an ageing population, as well as the increase in numbers and complexity of cancer cases worldwide, a global shortage of pathologists is imminent. Moreover, manual analysis lacks the precision and ability to draw deeper conclusions from data to support the precision medicine and drug development processes of tomorrow.

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THE FIRST EXPLAINABLE
## AI SOLUTION FOR PATHOLOGY

Our "explainable" AI overcomes "black-box" limitations of conventional AI. Based on our patented technology for reverse engineering the black box, we render diagnostic results explainable in form of precise heatmaps and image overlays. These heatmaps allow pathologists to quickly verify results of the AI, which is crucial, as the pathologist is ultimately responsible for the diagnosis.

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Our "explainable" AI overcomes "black box" limitations of conventional AI in diagnostics. Our patented technology for reverse-engineering the black box can not only find, but also precisely visualise and quantify cancer as well as other diseases in tissue samples. The resulting image overlays enable pathologists to review results fast in clinical routine diagnostics, saving time and increasing precision. In research, it can help pick the best drug candidates and identify new biomarkers.

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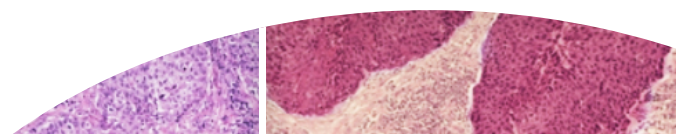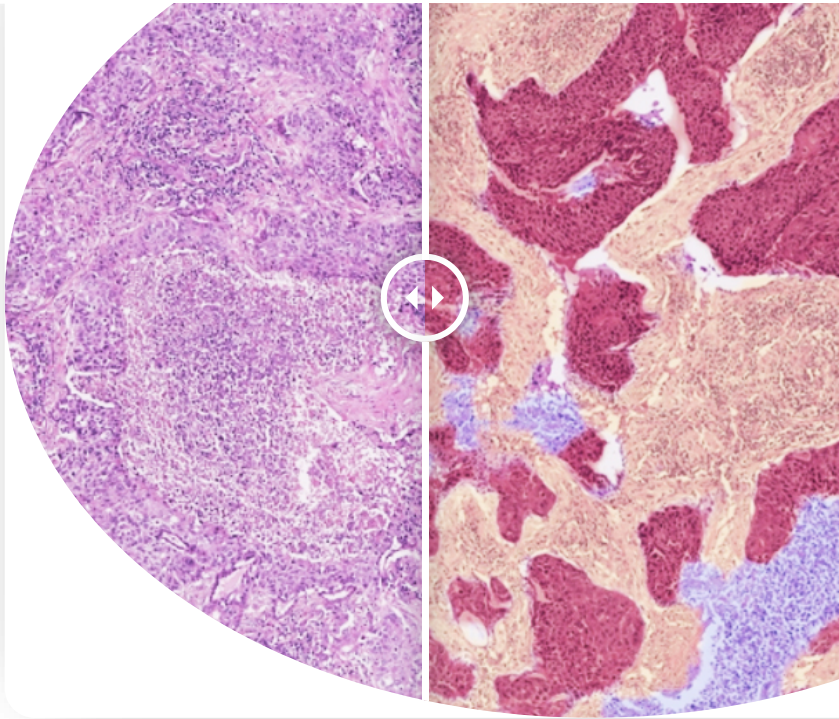
WHAT WE DO

We are an interdisciplinary team of machine learners, data scientists, pathologists, software engineers and business professionals dedicated to taking explainable AI from our research lab into the world.

DRUG DEVELOPMENT

We help take drug research from visual estimations under a microscope to precise analysis and quantification. We help researchers

CLINICAL DIAGNOSTICS

We help pathologists cope with ever-increasing case numbers by automating repetitive and strenuous tasks in routine

CLINICAL RESEARCH

We support clinical researchers at Charité and beyond in evaluating clinical trials and crack their hardest cases with AI.

identify which new drugs work best, and which patients will respond to it.

diagnostics, such as TIL quantification.

GET IN TOUCH!

Feel free to contact us for research collaborations, careers, press inquiries, or anything else that is on your mind.

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How can we help? (*)

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