How explainable is your AI?

Developing highly accurate, robust and unbiased AI is a non-trivial, time-consuming task. Ensuring its clinical safety over time is even harder.

This issue is exacerbated in industries such as healthcare, as regulators and clinical safety officers need to be confident that their medical devices are safe for diagnostic purposes. There is also a growing need to understand exactly how model outputs are generated, requiring full insight to be gained of the data that was used to train a model.

Zegami's end-to-end imaging AI consultancy enables the healthcare, life sciences and manufacturing industries to deliver explainable imaging AI faster and more accurately. Our unique tools and machine learning services become your data science plug-in, enabling easy idenitification of patterns, outliers and trends in large and complex visual data sets.

Today's challenges & opportunities

Unstructured data	Time consuming	Biased & inconsistent	Significant AI investment
40% p.a.	**82%**	**42%**	**$4B**
There is rapid growth in unstructured data due to an increase in AI adoption	of a data scientist's time is spent curating data	of AI papers contained significant testing errors	in 2019, up from $2.7B in 2018

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Explainable AI with Zegami's consultancy & tools

Whatever challenges you have in your machine learning (ML) workflow, we'll work with you to create, enhance and validate your ML models to drive your business or project forward, maximising the value of your image data.

Data preparation & annotation

Lack of data science expertise & resource

Require access to subject matter expertise

Fast proof of concept requirement

Develop & train models

Managing & displaying large volumes of image data

Time-consuming AI filtering and tagging processes

Disparate data silos across organisation

Designing a machine learning workflow

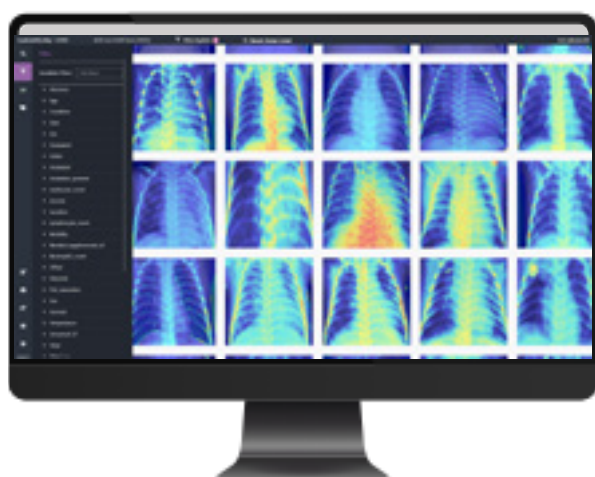### Model validation

Need to assess model explainability

Achieve CE & FDA accreditation

Quantify performance

Deployment & monitoring

Lack of internal machine learning capability to deploy

Need to continuously improve the machine learning model

See hidden patterns intuitively: Identify trends, outliers and data quality problems, visually

Embedded intelligence: Automated machine learning to extract meaningful insight

Analyse large image datasets: Visualise thousands of images at once, in a single field of view

Achieve explainability: See the inner workings of AI. Ensure models are fair and bias-free

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How we work with you

We have many years of experience working alongside researchers, data scientists and medical practitioners on a wide range of AI and ML projects that use imaging data. Over the years, we've developed a robust framework for collaborative projects that can be tailored to meet the requirements of any project or context.

Through our partnership approach, you will be supported through any or all of the following stages of the AI & ML development process:

Data preparation & annotation

Develop & train models

Model validation

Deployment & monitoring

Feasibility study   Define outcomes of value and develop proof of concept to demonstrate efficacy

Prototype   Functional application proving viability to stakeholders

Develop & deploy   Move from prototype to MVP, deployed in production

Ongoing support, instrumentation and monitoring. Identifying signs of data drift and model retraining   **Managed support**

Validation studies and AI explainability support   **Certification**

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