



Energy Transition powered by AI

Faculty is Europe's largest applied AI firm. We design, build and deploy high-performance, custom AI systems for organisations shaping the future of energy. From optimising the lifecycle of critical assets and managing network operations, to accurately forecasting demand and servicing customers, we apply AI to enable the energy transition.

Make your portfolio AI enabled

Take an 'AI-first' approach as standard for core business processes.

Optimise your operations

Embrace AI to rethink and optimise core business processes

Redesigning operations with data and AI at their core is driving efficiencies, speed and cost savings across industries, securing competitive advantage for fast movers.

Faculty designed an AI-based **workforce management solution** for a gas network, integrating automated anomaly detection and diagnostics. If fully adopted, the tool would drive customer safety & cost savings through proactive engineer scheduling.

Industrial operations are also **ripe for disruption with the adoption of generative AI**. With our help, you can speed up field personnels' workflows, personalise training and tap into engineers' notes for additional insight into asset health.

Enhance your customer journey

Enhanced acquisition, serving and retention of high value customers

AI is well placed to improve customer management, reducing churn, and for automated content personalisation.

Faculty saved a client over £10m in revenue leakage by matching customer service agents with customers most at risk of churning. We also deliver automated

segmentation of target customers and personalised, targeted communications.

We have deep expertise in identifying the root problem and integrating solutions to end-to-end systems, driving client adoption. Explore our [LLM webinar on optimising the customer journey](#) and [Energy Retail blog](#) for further uses of generative AI.

Maximise asset performance

Use AI to enhance the health of your asset base, securing operating margins

Advancements in AI can help your portfolio companies move up the maintenance continuum from condition based towards prescriptive maintenance.

We helped a network operator to optimise gas pressures and to **minimise methane leakage across the network, while predicting network anomalies** indicated through pressure signals. The solution is supporting hydrogen and biomethane injection into the network, and making predictive O&M a reality.

Generative AI has huge potential to supercharge your operations through increased productivity, personalised safety training and amplified asset intelligence.

Faculty blog: [GenAI for industrial operations: 3 ways to get started](#)

Generative AI to improve your investment process

Automate basic analytical tasks so you can focus your time and expertise on the highest value decisions and engagement activities.

Manage your investment pipeline

Faster and more efficient filtering of target companies based on your criteria

Generative AI is extremely powerful at retrieving, summarising and classifying vast quantities of unstructured data. **Faculty is a first mover in applying the technology for bespoke tools** that utilise client intelligence previously untapped by traditional AI methods.

Leverage this technology to analyse the news, reports and other publicly available information on target companies, to more effectively filter the top of your funnel.

Faculty developed capability for a PE firm to effectively narrow down the target landscape by identifying deals ahead of them entering the market. Our tool was able to **predict transactions 4X more accurately than the firm's existing solution**, beating the targeted accuracy for the solution. The model looked at 10,000's of European companies up to two years into the future.

By embracing generative AI and automating the initial analytics, you can **save value-adding human effort** for following up on the models' recommendations

Track your portfolio

Instant insight to spot opportunities related to your investments

Apply generative AI to help analyse target or existing portfolio companies'

"Generative AI is powerful but not magic [...] We see that the crucial challenge [for companies] is tailoring it to fit their business. That's why Open AI chose Faculty as their first technical implementation partner"

Marc Warner, Faculty CEO: [Faculty Generative AI webinar](#). May 2023

communications and reports, to track performance and investor sentiment.

Automate repetitive analyst work to free up time for taking action based on that information.

Faculty worked with a global actively managed fund to increase the speed and accuracy of processing and analysing the market, giving the firm an edge in trading strategies.

With the custom-built tool, **the client is able to faster analyse portfolio companies' investor calls & earnings reports**. The tool applies AI-powered search and information retrieval on specific topics identified by the client.

We built Large Language Models (LLMs) that apply a robust and scalable architecture, designed to handle the increasing volume of data. Particular attention was given to integration with existing client systems, while ensuring explainability, as well as upskilling the client on prompt engineering to get the most out of the tool.





AI readiness to **future proof your portfolio**

Assess and build AI capability in your new and existing portfolio companies.

Due diligence

Assess target companies' AI credentials and identify opportunities for upside from AI enabled workflows

We believe that capability in and adoption of AI will increasingly drive up company valuations, as **fast movers are gaining competitive advantage** through operational efficiencies, speed and cost savings.

Faculty has an established framework for carrying out due diligence of AI capability, and uncovering and assessing the value of AI enabled critical workflows. We can also help address the identified gaps with capability development or bespoke AI solutions.

The Faculty approach not only provides a deepdive into the target company's current adoption of AI, but also helps **surface a potential future state of the company** and where the pockets of value may lie.

Detailed, and externally verified understanding of the potential of AI across your portfolio companies' workflows, including the resulting ROI, will give you a strategic advantage in an increasingly AI-driven landscape, whatever your focus industry.

Navigate the AI transition

Build your AI strategy and capability to keep you ahead of the market

Faculty has worked with many organisations to collaboratively design AI strategies from scratch, solving for improved speed, quality or reduced cost in key processes. We see building AI capability as a core part of any company's AI strategy.

We have designed AI programmes across professional services, energy, healthcare, analytics and retail, and we bring stakeholders across organisational levels up to speed with the latest developments in AI.

Faculty advises company executives on AI strategy and on embedding it in the organisation. A helpful starting point can be in an executive briefing format where we address the promise, hype, as well as risks of AI, or generative AI more specifically.

Whether as part of a strategy re-set or as part of developing a solution, **we believe in working in partnership**. We include client technical teams in project work where relevant, and ensure that upskilling, capability development and knowledge transfer are designed into project deliverables.

If you're interested in finding out more about how Faculty can help you leverage AI in your organisation, get in touch.

andrew.perry@faculty.ai

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