extreme factory

Deep Learning as a Service
Innovation at your fingertips

Enabling UK leaders to address some of society's most complex challenges

From advanced automated voice recognition, to autonomous vehicles to medical imaging for more accurate diagnosis, deep learning technologies are set to revolutionise many sectors. Yet the costs and risks of innovating in this emerging domain are too high for many individual organisations.

Accessing Deep Learning: key challenges

Getting access to deep learning solutions at the right price point is a challenge. Developing and maintaining deep learning applications is highly specialised. And while deep learning is likely to become mainstream in the next few years, implementing a proof of concept can be costly.

The need for agility and cost-efficiency means that deep learning capabilities in the cloud are the practical way forward. Yet general-purpose cloud services do not have the functionality to implement deep learning currently due to:

- The high cost of the underlying technology
- Highly specialised requirements for deep learning applications
- Rapidly evolving deep learning frameworks.

In contrast, Extreme Factory offers world-leading deep learning solutions and services, with all the flexibility and cost-efficiency of the cloud, and hosted in the UK.

What is Extreme Factory Deep Learning as a Service?

Extreme Factory Deep Learning as a Service (DLaaS) is delivered in collaboration by Atos, the STFC Hartree Centre and the University of Oxford. It's a dedicated service leveraging our unique combination of expertise and resources to accelerate the adoption of deep learning and cognitive analytics by the UK's industry and research community.

You'll get commercial access to world-class deep learning capabilities facilities, plus a range of value-adding services:

- **Application consultancy**, with access to the latest generation of GPU or many core processor technology
- **Optimisation services** to rapidly scale up your deep learning workflow in line with your needs
- **Specialist expertise** including engineers, chemists, life scientists, mathematicians, software developers, data scientists and business development resources, as part of our remit to support UK industry.

Benefits of Deep Learning as a Service

Increased IT agility and flexibility:

- Leaves you free to focus on the science rather than the system
- Proofs of concept delivered cost-effectively
- Choice of NVIDA® or Intel® Deep Learning technology
- Up-to-date resources, with new capabilities constantly added
- Choice of public, private and hybrid models, depending on your need.

Higher returns on your investment:

- Lower system admin and data centre costs
- Mutualised user environments and workloads
- Only pay for what you use, no wasted assets
- No CapEx requirement.

Integrated and secure services:

- Ease of access through web-based portals
- Guaranteed security.

Hartree Centre
Science & Technology Facilities Council

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About Atos

Atos is a global leader in digital transformation with approximately 100,000 employees in 72 countries and annual revenue of around € 12 billion. The European number one in Big Data, Cybersecurity, High Performance Computing and Digital Workplace, The Group provides Cloud services, Infrastructure & Data Management, Business & Platform solutions, as well as transactional services through Worldline, the European leader in the payment industry. With its cutting-edge technologies, digital expertise and industry knowledge, Atos supports the digital transformation of its clients across various business sectors: Defense, Financial Services, Health, Manufacturing, Media, Energy & Utilities, Public sector, Retail, Telecommunications and Transportation. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline. Atos SE (Societas Europaea) is listed on the CAC40 Paris stock index.

Bull is the Atos brand for its technology products and software, which are today distributed in over 50 countries worldwide.

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For our Digital Vision
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Trusted partner for your **Digital Journey**