MINERVA

Supercomputing for AI, Made Simple

MINERVA is a Europe-wide support centre uniting experts in large-scale machine learning and AI research to help researchers, innovators, and organizations unlock the full power of Europe's high-performance computing (HPC) infrastructure. From seamless onboarding to advanced model development and responsible AI practices, MINERVA makes supercomputing accessible, efficient, and ethical — a trusted partner for scaling innovations, training frontier models, and meeting EU standards.

Who We Support

- Researchers in academia and research centres
- Startups, SMEs and industrial researchers
- European project consortia
- Public sector innovators

How we support

T1 ASSISTANCE	T2 CONSULTING	T3 WORKSHOP	T4 EMBEDDED SUPPORT
Quick troubleshooting	Strategic guidance	Accelerate workflows	Long term collaboration
Few days – Remote only	*Up to 2 weeks – Remote and on-site (if needed)*	*Up to 2 months – Remote and on-site (if needed)*	*Up to 6 months – Remote and on-site (if needed)*

This project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 101182737. The JU receives support from the Digital Europe Programme.

MINERVA Service Offering

Service Level	What You Get	Support Formats
L1 Porting AI Applications & Workflows to HPC	Support for adapting AI applications and workflows to HPC environments. This includes assistance with resource access, data preprocessing and storage optimization, and the use of tools such as Jupyter Notebook on HPC systems.	T1 – T2 – T3 – T4
L2 Optimization & Scaling of AI Libraries *on HPC*	Support to optimize the use of AI libraries on HPC systems. Activities include scaling workloads for efficient training and deployment, adapting software to hardware accelerators, and optimizing large multimodal models to create compact and efficient variants.	T1 – T2 – T3
L3 Pre-training of Large-Scale and/or Foundation Models	Support to enable the pre-training of large-scale and open foundation models on HPC infrastructure. This includes guidance on model adaptation and scaling, performance optimization, integration of diverse data sources, and implementation of model compression techniques.	T1 – T2 – T3 – T4
L4 Specialization & Fine-Tuning of Large-Scale AI Models	Support to fine-tune and specialize existing AI models using HPC resources. Services cover parameter-efficient training, advanced methods such as Retrieval-Augmented Generation and preference alignment, as well as efficient evaluation and inference optimization.	T1 – T2 – T3 – T4
L5 Ethical & Responsible AI Support	Guidance on compliance with the EU AI Act and related regulations. Support includes dataset audits for bias and fairness, and the design of transparent, auditable, and trustworthy AI workflows.	T1 – T2

Would you like to access our services?

Contact the MINERVA experts here:
support@minerva4ai.eu

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Where do MINERVA experts come from?

MINERVA experts come from leading European research institutions, supercomputing centres, and innovation hubs across the AI and HPC ecosystem.

Contacts

- For general inquiries / questions: info@minerva4ai.eu
- For accessing our support services: support@minerva4ai.eu
- Visit our website: www.minerva4ai.eu
- Visit our repository: https://github.com/minerva4ai-eu
- Follow us on LinkedIN

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