

AI Scientist



NEURALK-AI

 Full Time Job starting as soon as possible

 Hybrid from Paris (Station F)

 See our website: neuralk-ai.com

Our Mission:

Neuralk-AI is on a mission to help Enterprises build AI solutions that leverage information from structured databases (tabular or graph data) to address real business needs.

What do we build?

- We develop State-Of-The-Art AI embedding models specialized for structured data representation.
- We work on a new variant of Graph Neural Networks that shows the potential to set new standards for representational and transfer learning tasks across structured datasets.
- We tackle several applications in diverse industries, including recommendation engines for e-commerce, data cleaning and enrichment for PIM providers, fraud detection in banking and insurance, and profile matching in recruitment solutions.

About the job offer

Neuralk-AI is looking for AI scientists that are expert in **AI model design** and **training**. Join our Research & Development team, and contribute to our cutting-edge Applied-AI initiatives. To build SOTA foundation models for structured data representation, individuals are expected to:

- apply knowledge of relevant research domains or develop novel accurate AI algorithms, along with expert coding skills,
- work towards long-term ambitious research goals, while identifying intermediate milestones,
- collaborate on open-source and scientific breakthroughs by producing publications.

Key Responsibilities:

- Participating to the pre-training effort
- Optimising the architecture of the foundation model
- Designing and consolidating training and evaluation datasets to optimise representational as well as transfer learning abilities of our embedding models
- Running analyses to understand the learning mechanisms of the foundation model
- Working on the decodability of the embedding space

Minimum Qualifications:

- Proven work experience in a university or industry lab(s), in a role with primary emphasis on AI research (transformers/GNN).
- High scientific understanding of the field of AI. This means a broad knowledge of the field of AI, and specific knowledge of interest in training and fine-tuning AI models (transformers / GNNs) with a focus on architecture development, model evaluation and usage.
- High technical engineering competence. This means being able to design complex software and make them usable in production.
- Being able to navigate the full MLOps technical stack.

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- Being able to use complex HPC infrastructure with full autonomy.
- Hands-on experience with AI frameworks and tools (e.g., Sklearn, PyTorch, Jax).
- Experience working with large distributed systems.
- Self-starter and autonomous, Low-ego, Collaborative and with a real team player mindset.

Preferred Qualifications:

- Ph.D. and established track record of leading and/or contributing to influential research, e.g. as evidenced by high-impact publications at peer-reviewed AI conferences (e.g. NeurIPS, CVPR, ICML, ICLR, ICCV, ACL, Interspeech and ICASSP).
- Demonstrated machine learning experience in one of the following: open-source activity, data science competitions.
- Experience in creating high-performance implementations in deep learning frameworks (PyTorch, CUDA) at scale.
- Experience with distributed systems or on-device algorithm development
- 2+ years of work experience in both a faculty and an industry research position with primary emphasis on AI research
- Experience driving original scholarship in collaboration with a team
- Track record of translating research into business impact
- Experience in developing and debugging in C/C++, Python

Our values:

- Speed and Intensity: We thrive in a fast-paced environment where everyone takes ownership, driving results with a deep sense of responsibility and a strong collaborative team spirit.
- Passion for Excellence: Our team is fueled by a shared passion for continuous self-improvement and embracing new challenges, pushing boundaries to achieve greatness.
- Unwavering Commitment: We are dedicated to excellence, rigorously building the best technology for our clients, with a unified commitment to innovation and quality.

Work Environment:

We believe that a strong team spirit is built through meaningful connections and collaboration. That's why we offer a flexible hybrid work model that lets you enjoy the vibrant energy of our office as often as you like, with up to two days of remote work per week.

Our offices are located at Station F, the heart of innovation, surrounded by the most promising AI startups of today.

[Apply now](#)

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