Fraunhofer Institute for Intelligent Analysis and Information Systems IAIS

»Intelligent Systems that Work!«

The Fraunhofer Institute for Intelligent Analysis and Information Systems IAIS, located in Sankt Augustin near Bonn with sites in Dresden and Heilbronn, is one of the leading institutions for applied research in the fields of Artificial Intelligence (AI), Machine Learning and Generative AI in Germany and Europe. With around 350 employees, we develop strategies, technologies and solutions for companies, institutions and organizations throughout the entire value chain. Our teams focus on the requirements of the finance & legal, healthcare, industry & automotive, media, and public sectors. Across all industries, our solutions range from digital transformation, Generative AI models and intelligent process automatization to AI assessment and assurance as well as sustainability and resilience strategies. With our extensive training program, consisting of in-depth data science and AI courses with certification options, we qualify people from different disciplines and levels of knowledge.

Fraunhofer IAIS is at the heart of a strong research and transfer network: As one of four leading partners, we conduct cutting-edge AI research at the "Lamarr Institute for Machine Learning and Artificial Intelligence". We ensure the direct transfer of research results, especially to small and medium-sized companies, by managing the "KI.NRW competence platform" and as a leading partner of the "WestAI AI Service Center". Furthermore, Fraunhofer IAIS coordinates the "Fraunhofer Big Data and Artificial Intelligence Alliance", which brings together cross-industry knowledge of more than 30 Fraunhofer Institutes. At the "Fraunhofer Research and Innovation Center Hybrid Artificial Intelligence" in Heilbronn, we develop self-learning intelligent agents, and within the "Fraunhofer Competence Network for Quantum Computing", we explore machine learning on quantum computers. Intensive cooperation in research and teaching with the University of Bonn, the University of Siegen, and the Bonn-Aachen International Center for Information Technology (b-it) forms the academic foundation of our institute.

Fraunhofer IAIS is also involved in national and European initiatives to promote Europe's digital sovereignty and the trustworthy and sustainable use of AI: Together with our partners, we research and develop large AI language models with a focus on European languages and build powerful AI foundation models on German and European infrastructure. In addition, we are part of major EU flagship projects that contribute to the development and expansion of AI infrastructures and service platforms. Through the International Organization for Standardization (ISO), we are actively involved in developing international standards for trustworthy AI, thereby shaping the global framework for the responsible use of artificial intelligence.

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