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 along the entire value chain. Our teams focus on the requirements of the finance & legal, healthcare, industry & automotive, media, retail, and public sectors. Across 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" – the central point of contact for artificial intelligence in the state of North Rhine-Westphalia. Furthermore, Fraunhofer IAIS coordinates the "Fraunhofer Big Data and Artificial Intelligence Alliance", which brings together the cross-industry expertise 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 Center for Quantum AI", 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) form the academic foundation of our institute.

Fraunhofer IAIS is also involved in national and European initiatives to promote Europe's digital sovereignty, the trustworthy and sustainable use of AI, and AI education projects: In European flagship projects such as Trust LLM and OpenEuroLLM, we are researching large language models from scratch with a focus on European languages. With projects such as "DeployAI", "WestAI", and the "Jupiter AI Factory", we are working with renowned partners to help establish and expand AI infrastructures and service platforms. In the national initiative "MISSION KI", we are developing and evaluating AI quality and testing standards together with leading institutions across Germany. With our AI4Schools initiative, we are training young people and teachers in the responsible use of AI.

www.iais.fraunhofer.de/en

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