An SME Instrument beneficiary from Germany developed a multi-use forecasting solution and looks for partners from industry for commercial, research or joint adventure agreement

- SCHEDA
- APPROFONDIMENTI

Identificativo proposta:TODE20200902001 **RICHIEDI MAGGIORI INFORMAZIONI**

A German IT startup developed an Artificial Intelligence (AI)-powered high-resolution short-to-long-term atmosphere forecasting system for vertical applications. By using this, the company addresses societal challenges in the intersection between satellite, earth observation data, forecasting and inductive modeling technologies. It looks for partners for commercial, research or joint venture agreement in order to adapt the prediction tool to the multitude of use cases and bring it to market.

The German SME intends to develop and commercialize novel applications, products and services for forecasting of globally relevant, spatio-temporal problems in energy, climate, oceanography, health care, water supply management, infrastructure, and agriculture. The solutions are based on original software for parallel, self-organizing modeling and high-performance computing from observed spatiotemporal data. The company developed a number of unique and innovative original technologies for validation of machine learning models implemented in commercial software products including new approaches for application domain identification, cost-sensitive and ensemble modeling with per-sample prediction uncertainty, and self-organizing knowledge extraction from high-dimensional state space. With the core technology behind, the forecasting is more exact then other exisiting models. The startup company has established research co-operations with recognized scientists and experts in adaptive learning, control systems, and knowledge mining from institutions in London, Prague, Chengdu, Milan and cooperates with UNESCO. It is currently preparing and developing a number of research and commercial projects in particular in the sectors of energy and climate change. Pilot users and partners are sought in order to complete and commercialize the product development according to different application scenarios under research, joint venture or commercial agreement with technical assistance.

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