

AI4EOSC as a toolbox to develop and serve AI models in the EOSC

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Researchers exploiting artificial intelligence (AI) techniques like machine learning and deep learning require access to specialized computing and storage resources. Addressing this need, the AI4EOSC project is providing an easy to use suite of services and tools within the European Open Science Cloud (EOSC). This platform aims to facilitate the development of AI models, including federated learning, zero touch deployment of models, MLOps tools and composite AI pipelines among others.

In this presentation, we will provide an exploration of our platform's high-level architecture, with a particular emphasis on meeting the diverse needs of users. We will give an overview of the frameworks and technologies that lay the foundations of our implementation. Through real-world examples coming from active projects and communities (including the notable involvement of iMagine) we will illustrate how researchers are effectively leveraging the platform to advance their AI initiatives. This showcase serves not only to highlight the capabilities of the AI4EOSC project but also to underscore its practical utility and impact within the scientific community.

Topic

Needs and solutions in scientific computing: Artificial Intelligence

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