



Generative AI for the Software Development Life Cycle

D2.3 GENIUS Technology Hub – First Implementation

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Abstract:	Deliverable D2.3 delivers the initial software implementation and provides access to the GENIUS Technology Hub.

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GENIUS Technology Hub

Nowadays, the integration of artificial intelligence into software engineering has transformed the field and continues to do so. AI is being leveraged to enhance both the development process and the quality of the resulting software, driving improvements in efficiency, accuracy, and innovation . Each of the emerging solutions relies on key foundational techniques and knowledge, including, for instance, appropriate model selection, consideration of security implications, evaluation of environmental impact, or incorporation of agentic thinking.

This Hub of the GENIUS project provides a current knowledge platform for the latest AI topics, merging knowledge from both industry and academia. Furthermore, it includes a state-of-the-art literature search conducted by the work packages, each focusing on specific areas of Software Engineering interest.

The first realization of the GENIUS Technology Hub can be found here:

<https://genius-itea.github.io/GENIUS-Technology-Hub/#/>

The repository is available here:

<https://github.com/genius-itea/GENIUS-Technology-Hub>