

# Accelerating Testing Processes with Generative AI

PRACTICAL TRAINING | IN 2 DAYS | ONLINE OR IN PERSON OR IN-HOUSE

## 1- Introduction to Generative AI for software testing

- Generative AI - The basics
  - What generative AI brings to software testing
  - Using generative AI for testing - General principles
    - **Workshop 0:** Getting familiar with the LLM workbench
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## 2- Querying a large language model for testing - how to get good results

- Introduction to prompt engineering
  - Prompting techniques
  - Use cases with practical exercises:
    - **Workshop 1** - Designing test cases
    - **Workshop 2** - Improving existing test cases
    - **Workshop 3** - Test automation
    - **Workshop 4** - Analyzing anomaly reports
  - Good prompting practices in software testing
  - Summary and discussion of the know-how used
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## 3- Managing the risks of Generative AI

- Hallucinations, Errors and Bias of AI
  - **Workshop 5** - Hallucinations / Errors - Examples from the testing domain
- Cybersecurity risks
- Environmental risks
  - **Workshop 6** - How much does it cost in energy?
- Other risks: Loss of skills, dependence on a third-party service
- Regulation of AI: The European AI Act

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## 4- LLM-based applications for testing

- Applications for testing including generative AI
- Retrieval Augmented Generation (RAG) - Using company/project data
  - **Workshop 7** - Questioning a large document corpus
- Integrating generative AI into the testing process
  - Fine-Tuning of the LLM
  - **Workshop 8** - Integration of generative AI functions in a test tool
  - LLMOps
- AI agents for testing
  - Demo: Gérald - Virtual Manual Tester
- Summary and discussion

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## 5- Summary: What we've learned

- How to use Generative AI in practice
- Choosing the most appropriate AI model for testing
- Conclusion

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