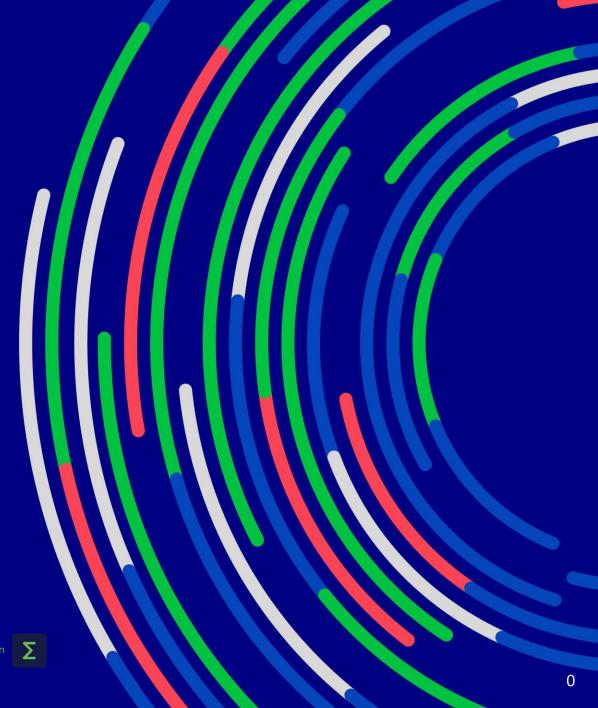
25 years of ITEA Roadshow - Germany NLP4SDLC

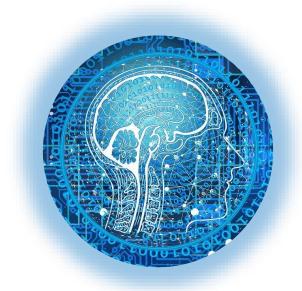
15 June 2023 | Online Robin Gröpler (ifak Germany)





How can Natural Language Processing (NLP) support the Software Development Life Cycle (SDLC)?

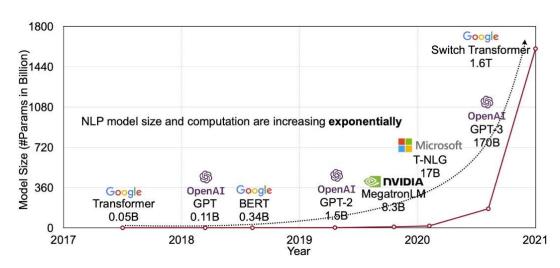
- ChatGPT is a breakthrough in AI! Applications in many fields for:
 - Human knowledge acquisition and learning processes
 - Conversational search (no keyword search)
 - Fast human-like feedback
 - → Strong business impact in the next decade expected
- State-of-practice in Software Engineering:
 - Mainly manual work of developers and test engineers
 - Some domain-/task-specific ML and NLP models
 - → **Huge improvements** in programming and quality assurance possible





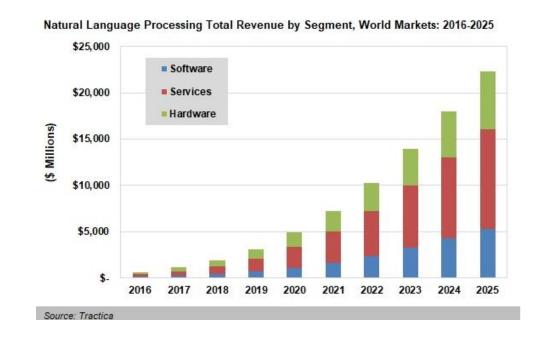
How can Natural Language Processing (NLP) support the Software Development Life Cycle (SDLC)?

 Rapidly growing development and improvement of Large Language Models



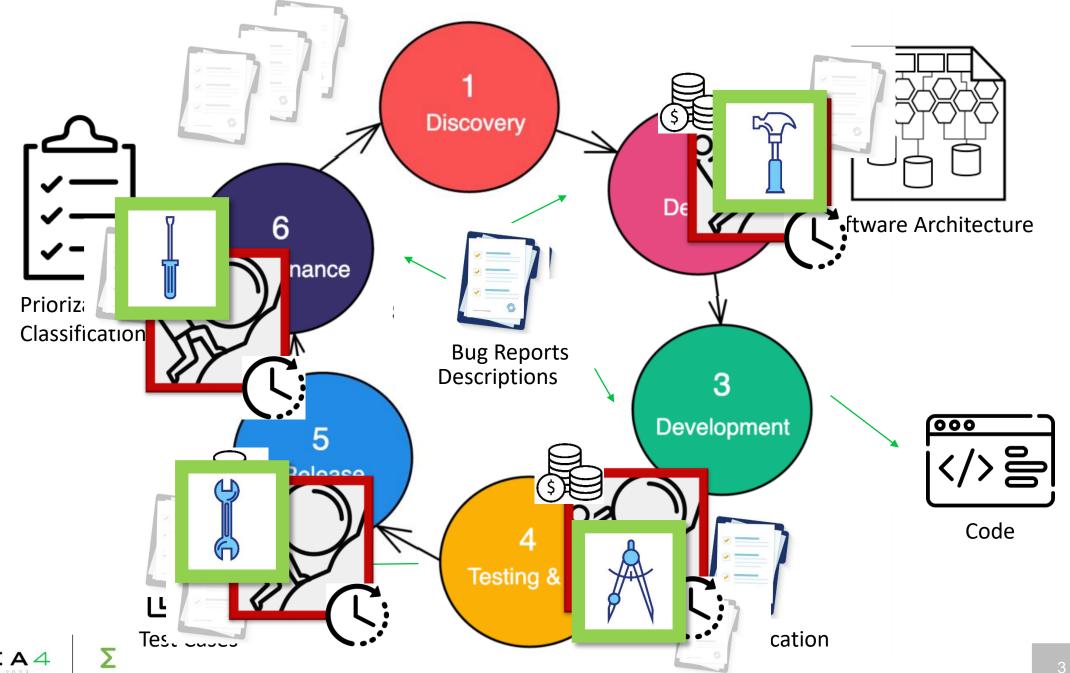
https://indiaai.gov.in/article/the-future-of-large-language-models-llms-strategy-opportunities-and-challenges

 Natural Language Processing Is a Key Engine of Al Market Growth



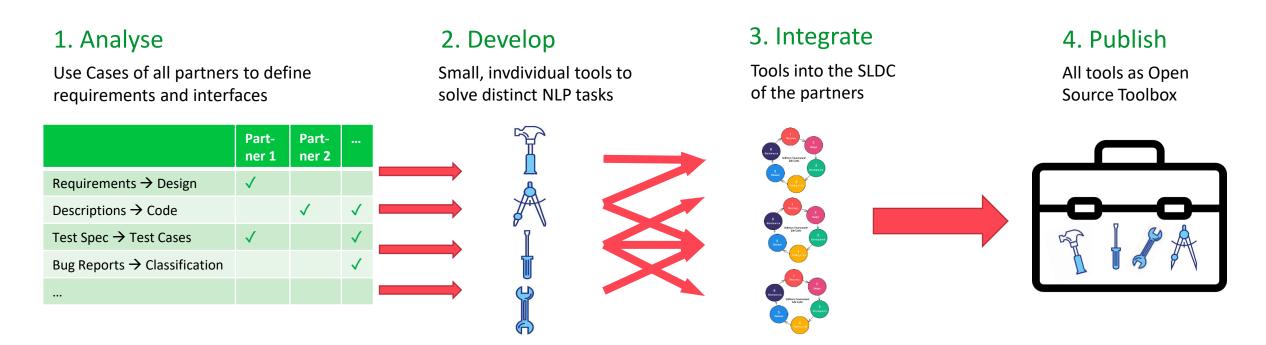






How can Natural Language Processing (NLP) support the Software Development Life Cycle (SDLC)?

Project idea: Make use of these emerging AI technologies for the software development process!





What are you looking for?

Expertise of ifak:

- Industrial Automation, Test Automation, Model-Based Testing, ML, NLP
- Participation in several ITEA projects: TESTOMAT, XIVT, SmartDelta

Missing partners / expertise

- Industry partners (LE/SME) with interest in utilizing new AI technologies, providing relevant use cases and data
- ML and Data Science companies and research organizations

Partners already involved

In discussion with some German and Turkish industrial partners



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