Chair of Software Engineering
School of Computation, Information and Technology
Technical University of Munich

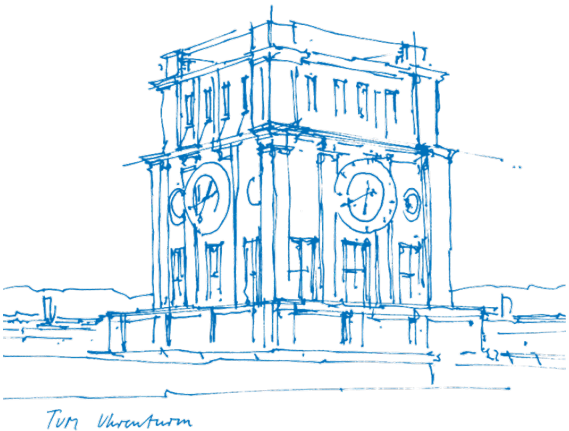
Next-Gen Programming

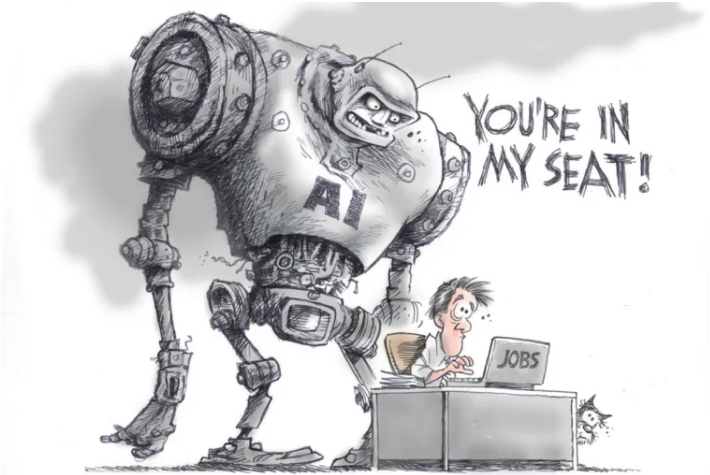
Bachelor Practical Course WS 25/26

M. Kasra Habib, Tobias Eisenreich

Chair of Software Engineering,
CIT, TUM Campus Heilbronn

July 16th, 2025




AI
YOU'RE IN MY SEAT!
JOBS

Who We Are?

M. Kasra Habib
PhD Researcher

Tobias Eisenreich
PhD Researcher

Prof. Dr. Stefan Wagner
Head of the Chair of SE

Visit Our Homepage

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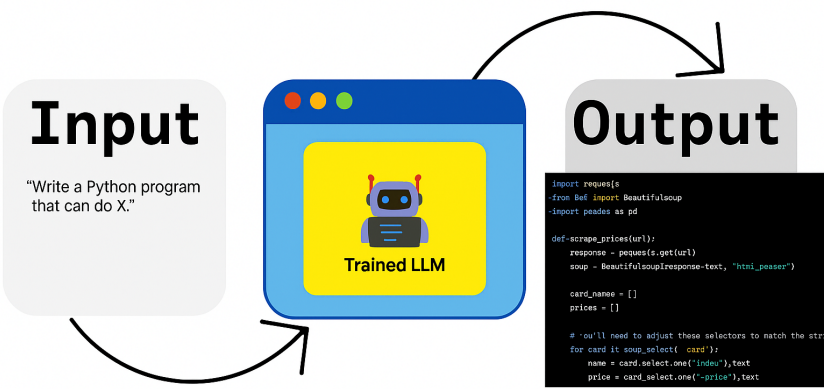
Your Task


Input
“Write a Python program that can do X.”
Trained LLM
Output
import reques{s
-from Be6 import Beautifulsoup
-import peades as pd
def-scrape_prices(url):
response - peques(s.get(url)
soup - BeautifulsoupIresponse-text, "htmi_peaser")
card_namee = []
prices = []
# ·ou'll need to adjust these selectors to natch the str
for card it soup_select(card');
name = card.select.one("indeu"),text
price = card_select.one("-price"),text

Learning Objectives

Prerequisites

We expect students to have

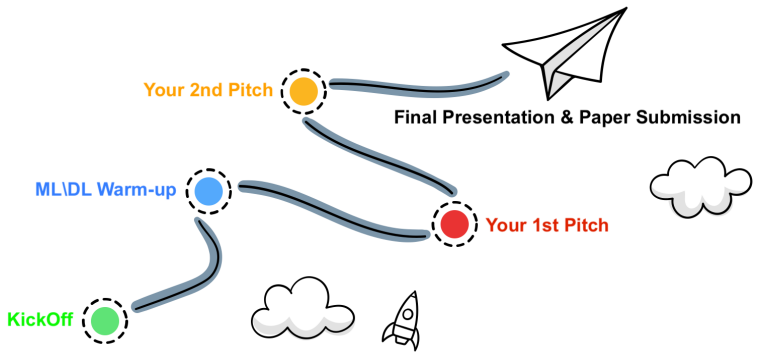
- some basic programming skills
- some basic software engineering

We don't expect students to have

- hardcore Math knowledge
- ML/DL knowledge
- prior specific programming language knowledge[1]

We recommend using

Mandatory Milestones



Organization

BPC Next-Gen Programming is offered:

- to students in Heilbronn and Garching
- in a hybrid format (online & in-person)
- using GitLab (no Moodle)

Final Presentation:

- takes place in-person in Garching
- for Heilbronn students, a one-day excursion to Munich

Exam and Evaluation

Do not be afraid!

If you put **some effort** and *participate actively*, you can **expect a grade** $<= 2.3$.

How to Get a Spot?

If you are a student from

- ***Heilbronn:*** apply thru campus
- ***Garching:*** apply thru matchmaking

Selected students will be notified before the semester begins.

Question?