

Practical Course NLP-based Software Engineering – SEBA Lab NLP: Preliminary Discussion

Phillip Schneider, Zoom, 6th of February, 2024

sebis

Chair of Software Engineering for Business Information Systems (sebis) Department of Computer Science School of Computation, Information and Technology (CIT) Technical University of Munich (TUM) wwwmatthes.in.tum.de

Overview of Course

Goals of the SEBA Lab NLP Course

- Deepen your knowledge in NLP and Software Engineering
- Get practical experience in NLP-based application development
- Get familiar with new technologies such as ML frameworks, NoSQL databases, etc.
- Participate in current research projects at sebis

Organization*

Date	Time	Room	Торіс
16.04.2024	10:00-11:00	Zoom	Kick-Off Meeting / Guest Lecture (Jochen Emig) and Project Proposals
29.05.2024	14:00-17:00	TBD	Intermediate Presentations
17.07.2024	14:00-17:00	TBD	Final Presentations

*Dates not 100% final. Finalized dates will be published on the course page within the next 2 weeks.

Overview of Course

General Information

- Only for Master's students
- Solid programming skills required and first NLP experience
- 16 students will be accepted
- 10 ECTS / 6 SWS
- Registration in the Matching-System between 09.02. 14.02.2024
 - https://matching.in.tum.de/

Further Information

- Find latest information on the course:
- https://wwwmatthes.in.tum.de/pages/I9f4rm9y0cbe/SEBA-Lab-Course-NLP

Examination

- Presentations are planned to happen in presence
- Presentation of team results in two sessions (intermediate and final presentation)
- Final application with the source code
- Retrospective slides deck
 - Key learnings by each team member
 - Contribution matrix

Examination



NLP Application

Presentation

- Architecture Documentation
- Code Quality
- User-Centered Design
- Team Work

Content

Structure & Style

Time Management

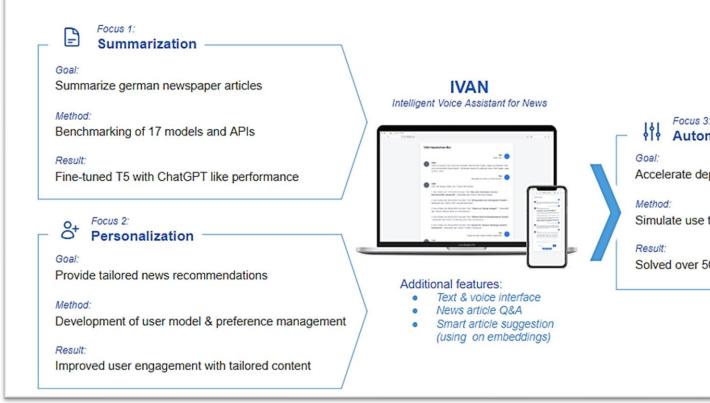
Quality of the Answers

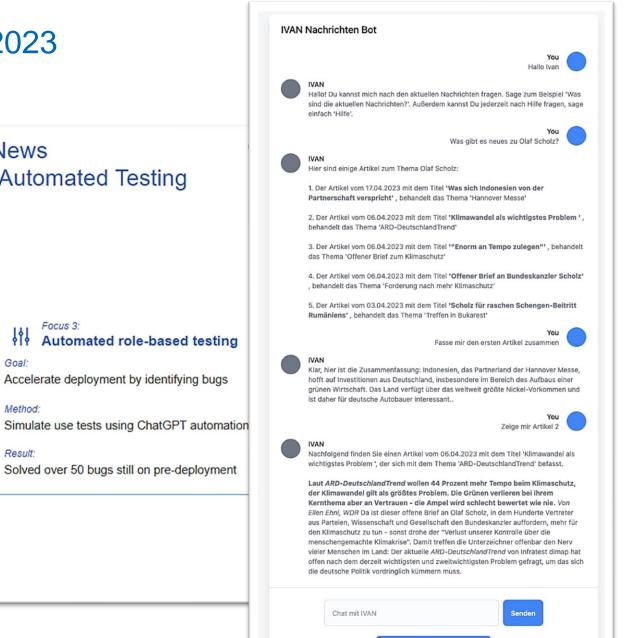


For successful completion of the course, both examination modules have to be passed!

Exemplary Project of Summer Semester 2023

Intelligent Voice Assistant for News (IVAN): Accessible News Consumption through Summarization, Personalization and Automated Testing





Klicken zum Sprechen!
 Audio Playback aktivieren

Visit Course Page for Latest Updates

https://wwwmatthes.in.tum.de/pages/l9f4rm9y0cbe/

SEBA-Lab-Course-NLP

SEBA Lab Course (NLP)

Last modified Jan 27 No tags assigned

News

- . In the summer semester 2023, we offer the SEBA Lab course with an exclusive focus on Natural Language Processing (NLP) projects.
- The main topic of the upcoming course will be Conversational Artificial Intelligence.

• The preliminary discussion of the course content and topics will take place on Friday, 03.02.2023 from 11:00-11:30 (Zoom link below).

• We are happy to announce that Jochen Emig will be our guest speaker. He is the founder and CEO of ONSEI a highly successful startup that consults on, builds and maintains conversational interfaces for companies such as Allianz, BMW, Red Bull, EDEKA, Fraunhofer, or Deutsche Telekom.

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Contact

· For questions or any feedback on the course, please contact Phillip Schneider

Registration

- Registration per Matching System
 [™] 15.02. to 20.02.2023.
- (Note: The SEBA Lab course is listed as "Entwicklungspraktikum Software Engineering für betriebliche Informationssysteme (IN2106. IN2129)" in the matching system.) Only for Master's students!

Content and teaching goals

The SEBA Lab course is an opportunity for students to work on interesting projects in the field of NLP. Students will collaborate in small teams and implement NLP applications over the course of the term. Each team is advised by one teaching assistant of the chair.

The goals of the lab course are:

- · Deepen your knowledge in NLP and Software Engineering
- · Get practical experience in NLP-based application development
- · Get familiar with new technologies such as Machine Learning, NoSQL databases, Cloud Computing, etc.

· Gain insights from the industry through quest lectures · Participate in current research projects at sebis

Schedule (TBD)

Date	Time	Place	Торіс	Attendance	
03.02.2023	11:00-11:30	Zoom (https://www.cenf.zoom.us /y88288224807pwd=V/kgycKr21cH8W/jkzRz2CowRuM3234699 (p*) Passcode: 695885	Preliminary Discussion	voluntary	
17.04.2023	14:00-15:00	Zoom	Kick-Off Lecture (Jochen Emig, Founder and CEO of ONSEI)	mandatory	
25.04.2023	10:00-11:30	TBD	Foundations of Conversational Al	mandatory	
		Meetings (on project team level)			
24.05.2023	14:00-16:00	TBD	Intermediate Presentations	mandatory	
		Meetings (on project team level)			
19.07.2023	14:00-16:00	TBD	Final Presentations	mandatory	

Attributes of this Course

Acronym	SEBA Lab
Contact (organization)	Phillip Schneider
ECTS	10
Exam	Oral
anguage	English
ecturer	Prof. Dr. Florian Matthes
.evel	Master
lodule No.	IN2106, 2129, 4077
Rhythm	Summer
Room	see description
SWS	6
lime	see description

Important Next Steps

Registration 09.02. – 14.02.2024

 Register in the Matching-System (<u>https://matching.in.tum.de/</u>) with your TUMonline ID. There will be two instances: one for seminars, one for lab courses. Enter your course preferences.

Application until 14.02.2024

Send your CV and transcript of records to: phillip.schneider@tum.de

Stay Updated

https://wwwmatthes.in.tum.de/pages/I9f4rm9y0cbe/SEBA-Lab-Course-NLP

TLM sebis

ATIK INFORMATI

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