SAS LLMs and AI Agents (Bootcamp)

Stand: 07.09.2026 / Änderungen vorbehalten

MyCampus (https://mycampus.hslu.ch) bietet Ihnen die Möglichkeit, den Stundenplan direkt auf alle gängigen Geräte mit Internetzugriff herunterzuladen. Das Login erhalten Sie vor dem Programmstart.

Wochentag	Datum	Zeit	Lektionen	Bezeichnung	Module Description
Freitag	16.10.2026	09:15 - 10:00 Uhr	1	Introduction to the CAS in LLMs and AI Agents (Bootcamp)	
Freitag	16.10.2026	10:05 - 12:35 Uhr	3	Module 1: Foundations of LLMs and AI System Design	Core concepts of NLP and large language models: tokenization, vector representation, transformer-based models, prompt engineering. Hands-on exercises building a first structured LLM application.
Freitag	16.10.2026	12:35 - 13:20 Uhr		Gemeinsames Mittagessen	
Freitag	16.10.2026	13:20 - 16:45 Uhr	4	Module 1: Foundations of LLMs and AI System Design	Core concepts of NLP and large language models: tokenization, vector representation, transformer-based models, prompt engineering. Hands-on exercises building a first structured LLM application.
Freitag	30.10.2026	09:15 - 16:45 Uhr	8	Module 2: Knowledge Systems and Retrieval-Augmented Generation (RAG)	Connecting LLM applications to documents, internal information and knowledge sources. Building retrieval-augmented generation pipelines for grounded, verifiable answers.
Freitag	13.11.2026	09:15 - 16:45 Uhr	8	Module 3: AI Agents and the Model Context Protocol	Chatbots vs. automated workflows vs. AI agents; building agents that structure tasks, operate tools and make decisions; the Model Context Protocol (MCP); agent orchestration and multi-agent workflows.
Freitag	20.11.2026	09:15 - 16:45 Uhr	8	Module 4: Bias, Fairness and Red Teaming	Bias recognition, fairness and transparency in LLM-based systems. Practical red teaming to probe models for weaknesses, undesired output and safety risks.
Freitag	27.11.2026	09:15 - 16:45 Uhr	8	Module 5: Customizing and Adapting Models	When existing models are sufficient vs. when adaptations or smaller specialized models make sense. Weighing effort, quality, data protection and benefit.
Freitag	04.12.2026	09:15 - 16:45 Uhr	8	Module 6: Packaging and Releasing LLM Applications	Technical packaging, evaluation and release of LLM applications: automated evaluation, versioning, interfaces, logging and monitoring.
Freitag	11.12.2026	09:15 - 16:45 Uhr		Reservetag	
Samstag	12.12.2026	09:15 - 16:45 Uhr		Reservetag	
Freitag	18.12.2026	09:15 - 16:45 Uhr		Reservetag	
Samstag	19.12.2026	09:15 - 16:45 Uhr		Reservetag	
Weihnachtsferien (20.12.2026 - 03.01.2027)					
Freitag	26.03.2027	09:15 - 16:45 Uhr		Präsentation der finalen CAS-Transferarbeit	

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Module
M1: Foundations of LLMs and AI System Design
M2: Knowledge Systems and Retrieval-Augmented Generation (RAG)
M3: AI Agents and Controlled Workflows
M4: Quality, Safety and Responsible Use
M5: Customizing, Deploying and Scaling Models
M6: LLMOps and Operating Production-Grade AI Systems

Eckdaten
00.00.2026 Eingabeschluss Themeneingaben via Complesis
00.00.2026 Themenfreigabe durch Programmleitung, Zuweisung Betreuer und Gruppenbildung via Complesis
00.00.2027 Abgabe CAS-Transferarbeit via Complesis
00.00.2027 Abgabe CAS-Transferarbeit Präsentation via Complesis
26.03.2027 Präsentation Transferarbeit
00.00.2027 Bekanntgabe Diplomierungsergebnis via MyCampus
00.00.2027 Ablauf Nachbesserungsfrist

Unterrichtszeiten
1 09:15 - 10:00
2 10:05 - 10:50
3 11:00 - 11:45
4 11:50 - 12:35
5 13:20 - 14:05
6 14:10 - 14:55
7 15:10 - 15:55
8 16:00 - 16:45