

Syllabus

Descrizione corso

Titolo insegnamento	AI-assisted Literature Review
Codice insegnamento	71080
Titolo aggiuntivo	
Settore Scientifico-Disciplinare	IINF-05/A
Lingua	Inglese
Corso di Studio	Corso di Dottorato di ricerca in Scienze e Tecnologie informatiche
Altri Corsi di Studio (mutuati)	
Docenti	prof. Ilenia Fronza, Ilenia.Fronza@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/17458
Assistente	
Semestre	Primo semestre
Anno/i di corso	2025 - 2026
CFU	1
Ore didattica frontale	10
Ore di laboratorio	0
Ore di studio individuale	15
Ore di ricevimento previste	
Sintesi contenuti	Manually preparing and writing a literature review takes considerable time and effort. However, tools now exist to review large knowledge bases and deliver meaningful insights in a matter of minutes. Throughout this course, students will explore which stages of the literature review process can be automated using AI and to what extent human involvement remains necessary. Students will have the opportunity to engage in a hands-on assignment where they will apply their knowledge to develop the literature review required for their doctoral program. This assignment aims to deepen their understanding and enhance their

	research skills. • Literature Review: stages and guidelines • Automating literature reviews using AI
Argomenti dell'insegnamento	• Literature Review: stages and guidelines • Automating literature reviews using AI
Parole chiave	Artificial Intelligence, Literature review
Prerequisiti	
Insegnamenti propedeutici	
Modalità di insegnamento	The course consists of 3 modules, combining frontal lectures, hands-on activity, and group discussions. The first introductory module lasts 2 hours and focuses on theoretical foundations. The second module lasts 4 hours and is dedicated to hands-on activities to experiment with automating literature reviews using AI. In the final module, also 4 hours long, students will present their findings and engage in a discussion about the advantages and disadvantages of using AI for literature reviews.
Obbligo di frequenza	Not compulsory but recommended. Non-attending students must contact the lecturer at the start of the course to agree on the modalities of the independent study.
Obiettivi formativi specifici e risultati di apprendimento attesi	...
Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)	
Modalità di esame	Students will have the opportunity to engage in a hands-on assignment where they will apply their knowledge to develop the literature review required for their doctoral program. The assignment will be evaluated and discussed during the course. Non-attending students will work on the assignment autonomously and present it in the final module.
Criteri di valutazione	The exam is graded on a pass/fail basis with no marks awarded. The following criteria are relevant for the assessment: - Communication clarity and effectiveness. - Ability to summarize, evaluate, and establish relationships between topics. - Ability to apply the tools, methods, and processes introduced in

	the course to specific cases.
Bibliografia obbligatoria	The reading material is specified during the course.
Bibliografia facoltativa	
Altre informazioni	
Obiettivi di Sviluppo Sostenibile (SDGs)	Istruzione di qualità