COURSE DETAIL

INVESTIGATING WITH AI
Country France
Host Institution Institut d'Etudes Politiques (Sciences Po)
Program(s) Sciences Po Paris
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title INVESTIGATING WITH AI
UCEAP Transcript Title INVESTIGTNG WITH AI
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course helps master the use of Large Language Models (LLMs) and AI agents for data collection, analysis, and visualization. The curriculum goes beyond traditional data analysis by teaching students how to extract hidden patterns and uncover semantic meanings from dynamically built corpora. This approach enables students to gather insights and design results that can only be achieved with the assistance of AI tools. The course develops an understanding of both the capabilities and limitations of AI tools in research contexts and explores how AI tools can enhance our understanding of social phenomena and examine the strengths and limitations of AI-assisted research. Through hands-on projects, students investigate these questions using real-world data from various sources such as climate negotiations reports, parliamentary speeches, social media discourses, etc. Additionally, the course develop a methodological toolbox by generating an analysis pipeline with the assistance of AI. The course goes over fundamental concepts in Machine Learning and Natural Language Processing and culminates in a student-led investigation project. Working in groups, students develop their own research protocol, collect and analyze data using AI tools, and present their findings in the form of a website. Each student also produces an individual reflective essay on their experience with AI-assisted research.

Language(s) of Instruction
English

Host Institution Course Number
DHUM 25A43

Host Institution Course Title
INVESTIGATING WITH AI

Host Institution Course Details
https://syllabus.sciencespo.fr/fr/?202420/269302

Host Institution Campus

Host Institution Faculty

Host Institution Degree
Seminar

Host Institution Department
Humanities

Course Last Reviewed
2024-2025

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