

## 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 Campus

### Host Institution Faculty

### Host Institution Degree

Seminar

**Host Institution Department**

Humanities

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