



# **Generative AI for Work & Research Productivity**

## **No-Code AI Tools for Task Automation**

An 8-week Live Cohort Course



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The **GRAPH** Courses

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## BOOTCAMP FEATURES

# GENERATIVE AI FOR WORK & RESEARCH PRODUCTIVITY

**NO-CODE AI TOOLS FOR TASK AUTOMATION**

A 2-MONTH GUIDED COURSE

- Weekly live workshops
- Live help sessions every week
- Private community forums
- Personalized feedback on assessments
- Capstone project coaching
- Shareable certificate
- Lifetime access to our tutorial library

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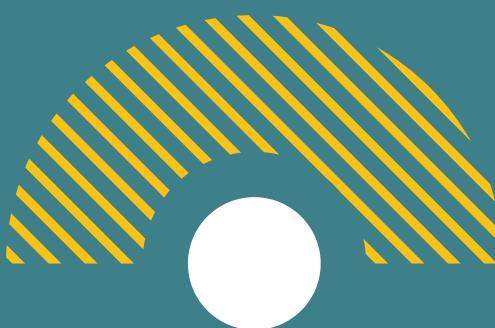
# MODULE 1

## WEBSITES, DOCUMENTS & PRESENTATIONS

Learn how large language models (LLMs) work. Generate text for papers or grants, create project websites with no-code tools, format documents efficiently, and design clear presentations or posters using AI assistants.

### Topics:

- How LLMs are trained and an overview of popular LLM providers
- Generating Markdown, LaTeX and HTML outputs
- Building simple research websites with ChatGPT Canvas and Replit
- Using Markdown for structured research documents
- Introduction to AI presentation tools for scientific communication



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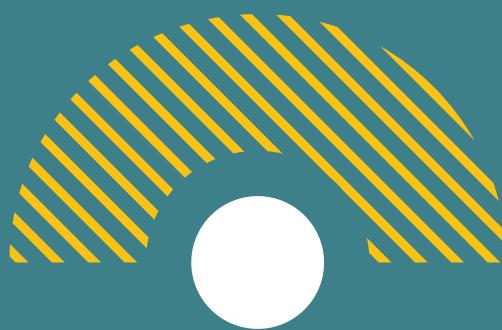
# MODULE 2

## AI-AUTOMATED DATA ANALYSIS

Master AI tools for analyzing data, manipulating files, and creating automated reports. Use Julius, ChatGPT Code Interpreter and Windsurf to process datasets, visualize results, and generate reports quickly.

### Topics:

- Use ChatGPT Code Interpreter for quick data analysis
- Build automated dashboards with TheBricks
- Process and transform datasets with Julius
- Implement batch file conversion and manipulation
- Create automated reports and data visualizations
- Design spreadsheet automations for recurring analyses



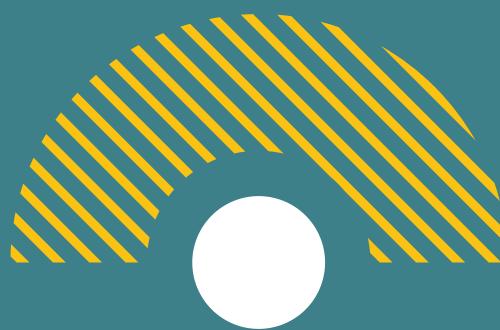
# MODULE 3

## GENAI FOR RESEARCH & TEXT ANALYSIS

Learn AI techniques for literature search, text analysis, and knowledge synthesis. Explore how AI can accelerate information gathering, identify patterns in text data, and organize complex information. Develop systems for extracting insights from large text collections and academic publications.

### Topics:

- Conducting efficient literature reviews with Elicit and LiteRev
- Implementing text classification for document organization
- Applying sentiment analysis to identify trends and opinions
- Creating knowledge maps from document collections
- Designing automated summarization workflows
- Building information synthesis systems for research topics



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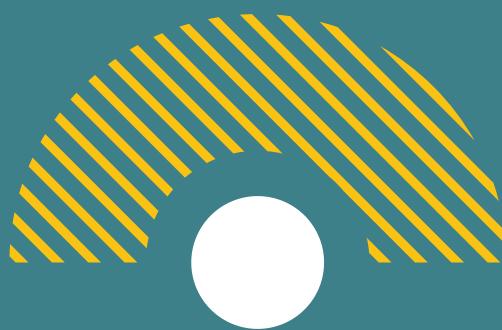
# MODULE 4

## CUSTOM GPTS AND CHATBOTS

Dive deeper into research assistant creation by leveraging advanced LLM architecture. Build chatbots for research assistance and knowledge management. You'll gain insights into context windows, retrieval augmentation, and how to integrate AI assistants into your research workflow.

### Topics:

- LLM chat architecture, context windows, and RAG systems
- Building custom GPTs for specific use cases
- Creating interactive chatbots with Botpress
- Integrating knowledge bases with your research materials



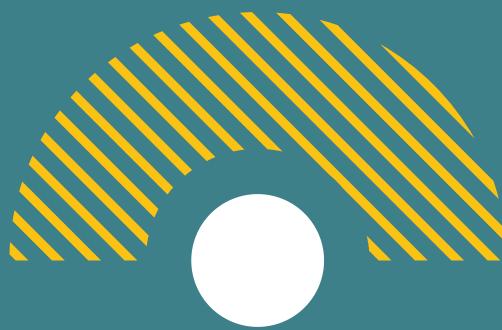
# MODULE 5

## AI FOR TASK AUTOMATION

Discover practical strategies for automating repetitive research tasks through AI-driven flows. This module empowers you to set up email response automations, design AI agents for literature monitoring, and orchestrate complex workflows that save time and resources.

### Topics:

- Introduction to AI automation and agent-based systems
- Setting up email response automations
- Building AI agents for complex automation flows
- Browser control agents for web-based tasks



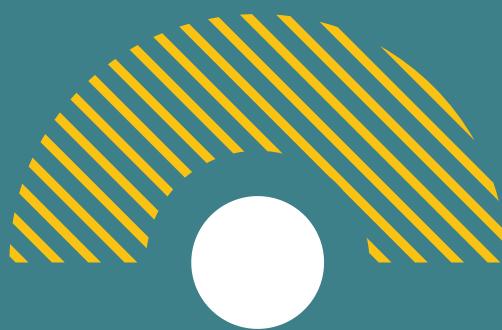
# MODULE 6

## GENAI FOR COMMUNICATION AND OUTREACH

Explore AI-driven approaches for research dissemination, focusing on creating assets for sharing your findings. Learn to develop methods for summarizing research, design visuals for publications or presentations, and produce explanatory content with minimal manual effort.

### Topics:

- AI-generated research summaries for different audiences
- Designing scientific figures and diagrams with AI tools
- AI-generated video abstracts and explanations
- Prompt engineering for scientific visualization
- Content scheduling for research communication



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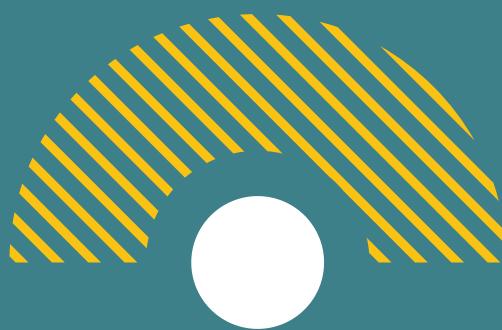
# MODULE 7

## CAPSTONE PROJECT & SHOWCASE

Collaborate with peers and instructors to create and refine a final AI solution, tool or presentation. Receive real-time feedback and troubleshoot technical challenges. Conclude the program by presenting your final projects to an audience of peers and guests.

### Topics:

- Project progress check
- Peer feedback sessions
- Final project presentations
- Public Q&A session





## GRADING RUBRIC

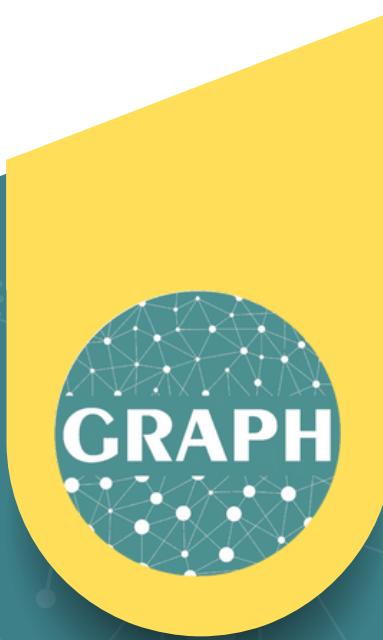
The final course grade will be a combination of the following:

- Online quizzes (15%)
- Workshop assignments (35%)
- Workshop attendance & participation (10%)
- Final project (40%)

**Passing grade:** 80%

**Attendance policy:** Attend at least 5 workshops to receive full attendance credit





## WHY GRAPH COURSES?

At GRAPH Courses, we're committed to making high-quality data science and AI education accessible and impactful.

Based at the **University of Geneva, Switzerland**, our programs combine academic rigor with practical, industry-relevant skills.

Our bootcamp-style approach ensures an immersive learning experience. You'll gain technical know-how, build **real-world AI projects**, and set yourself apart in the job market.

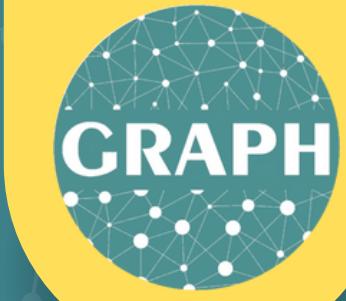
What sets us apart is our supportive learning ecosystem. With live workshops, personalized project reviews, and a global community of peers, you're never alone. Our experienced instructors and mentors are dedicated to your success.

As a non-profit backed by academic institutions, we offer this comprehensive bootcamp at an affordable price without compromising on quality.



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# INSTRUCTORS & MENTORS



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**GRAPH Network Director**  
Head of the Infectious Diseases & Mathematical Modelling Division,  
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**Kene Nwosu**  
**GRAPH Instructor**  
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**Prof. Flavio Coelho**  
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**Sabina Rodriguez Velásquez**  
**GRAPH Instructor**  
Data Scientist with a special interest in Infectious Epidemiology



**Camille Beatrice Valera**  
**GRAPH Instructor**  
Project Manager and Scientific Collaborator,  
University of Geneva



**Guy Wafeu**  
**GRAPH Instructor**  
Data Analyst and Coordinator at Building Medical Research in Africa





## OUR PARTNERS



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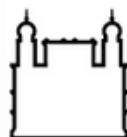


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HEALTH  
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# The GRAPH Courses

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