GenAI-Powered Research Methods Workshop Research automation, assistant, and agent

Oslo, 4-5 Ápril, 2025

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1 Introduction

The landscape of academic research is undergoing a profound transformation with the advent of generative AI technologies. This transformation is manifesting in three key paradigms: research automation, research assistants, and research agents. Each represents a distinct approach to augmenting human intellectual capabilities in the research process.

2 Research Automation in Practice

Research automation functions much like a streamlined factory for academic work—you configure the system once to perform repetitive tasks automatically, allowing you to focus on higher-level intellectual contributions. The power of modern research automation lies in its ability to process information at scale while maintaining consistency and reducing human error.

2.1 Automated Literature Monitoring

One powerful application is the creation of personalized literature monitoring systems. Researchers can design automated workflows that:

- Continuously scan multiple journal databases and preprint servers for new publications matching specific keywords
- Use natural language processing to generate concise summaries of each relevant paper
- Categorize findings based on methodology, results, or relevance to specific projects
- Compile daily or weekly email digests of the most significant developments
- Maintain a searchable database of all monitored literature with AI-generated metadata

This automation transforms what would typically be hours of manual scanning into a streamlined intelligence system that ensures you never miss relevant developments in your field.

2.2 Manuscript Enhancement Workflows

Another valuable application is the creation of multi-stage manuscript enhancement pipelines:

- Initial drafts are processed through multiple specialized language models optimized for different aspects
 of academic writing
- One system might focus on stylistic consistency while another evaluates methodological clarity
- Citation checkers verify the accuracy and completeness of references
- Readability analyzers suggest structural improvements for better communication
- Final reports highlight potential improvements across multiple dimensions of the manuscript

This approach creates a "peer review before the peer review," potentially improving acceptance rates and reducing revision cycles.

2.3 Additional Research Automation Applications

Beyond these examples, research automation can be applied to numerous other scholarly workflows:

- Data Visualization Factories: Systems that automatically transform raw research data into multiple visualization formats, testing different representation approaches to identify the most compelling ways to communicate findings
- Grant Opportunity Matching: Workflows that continuously monitor funding databases, matching your research profile and publication history against available opportunities and generating preliminary project outlines aligned with funder priorities
- Experimental Protocol Generation: Systems that can translate research questions into detailed experimental protocols, incorporating best practices from similar studies while adjusting parameters to your specific context
- Teaching Material Generation: Automated workflows that transform your research papers into teaching materials, creating slides, student handouts, and discussion questions that make your work accessible to different educational levels
- Conference Intelligence Systems: Tools that monitor upcoming academic conferences, automatically suggest relevant sessions based on your research interests, summarize proceedings you cannot attend, and identify potential collaborators with complementary expertise

The key advantage of these automation systems is that once properly configured, they operate with minimal ongoing input, functioning like dedicated research infrastructure that expands your capabilities without proportionally increasing your workload.

2.4 Research Assistants

Research assistants represent a more interactive paradigm where AI systems work collaboratively with human researchers. These systems function as digital colleagues that can:

- Engage in dialogue to help researchers refine ideas and hypotheses
- Provide real-time feedback on experimental designs and methodological choices
- Suggest alternative interpretations of data or analytical approaches
- Identify potential weaknesses or blind spots in research arguments
- Serve as knowledge repositories that can be queried conversationally

Unlike automation tools, research assistants maintain ongoing context and adapt to the researcher's specific needs and working style. They function more as intellectual partners than tools, maintaining a level of agency while ultimately remaining under human direction and control.

2.5 Research Agents

Research agents represent the most autonomous paradigm, where AI systems can independently pursue research objectives with limited human supervision. These systems can:

- Formulate testable hypotheses based on existing literature gaps
- Design and execute experimental protocols within digital environments
- Autonomously navigate the scientific process from question formulation to conclusion
- Collaborate with other AI agents or human researchers to solve complex problems
- Adapt research strategies based on intermediate findings

Research agents differ from assistants in their capacity for independent action and decision-making within defined parameters. While still emerging and primarily limited to computational research domains, they represent a significant shift toward AI systems that can function as semi-autonomous researchers rather than merely tools or assistants.

2.6 The Continuum of Research AI

These three paradigms—automation, assistants, and agents—exist on a continuum of increasing autonomy and complexity. Many current AI research tools blend aspects of these approaches, with systems that can automate routine tasks while also providing assistant-like feedback and limited autonomous capabilities.

The distinction between these paradigms is not merely technical but philosophical, raising important questions about the appropriate role of AI in knowledge creation, the nature of scientific discovery, and the future relationship between human and artificial intelligence in advancing human knowledge.

3 Research Automation Tools

Implementing research automation doesn't necessarily require programming expertise. Several no-code and low-code platforms enable researchers to build sophisticated automation workflows with minimal technical overhead:

3.1 Overview of Key Research Automation Platforms

- Dify.AI An LLM application development platform that allows researchers to create AI applications without coding. Particularly useful for building custom research assistants, knowledge bases, and specialized text analysis tools. Its strength lies in making generative AI capabilities accessible through visual interfaces.
- Make.com (formerly Integromat) A visual automation platform that excels at connecting research tools and data sources. Its intuitive interface allows for creating complex multi-step workflows that can integrate with academic databases, publication platforms, and analysis tools.
- n8n An open-source workflow automation tool with strong data processing capabilities. Particularly valuable for researchers who need to maintain data sovereignty or work with sensitive information, as it can be self-hosted within institutional infrastructure.
- Zapier Perhaps the most accessible automation platform with over 5,000 app integrations. Excellent for researchers who need to quickly connect common research tools like Google Scholar, reference managers, cloud storage, and communication platforms.

These platforms share a common philosophy: enabling non-technical users to build automations through visual interfaces that represent workflows as sequences of triggers, actions, and logic operations.

3.2 Detailed Guide: Building a Literature Monitoring System with Make.com

To illustrate how these tools work in practice, let's explore how to build an automated literature monitoring system using Make.com.

3.2.1 System Overview

This automation will:

- 1. Monitor RSS feeds from key journals in your field
- 2. Filter articles based on relevant keywords
- 3. Generate summaries using an AI service
- 4. Compile findings into a structured research database
- 5. Send you a daily digest email with the most relevant papers

Table 1: n8n Integrations Relevant to Social Science Research

Integration Name	Category	Potential Use Cases in Social Science Research
Google Sheets	Data Storage	Storing survey responses, organizing literature review findings, tracking research progress, managing contact lists for expert identification.
Airtable	Data Storage	Organizing research data, managing qualitative codes, tracking project tasks, building simple databases for research-related information.
Notion	Data Storage	Creating research notes, organizing literature, managing project documentation, building collaborative research workspaces.
MySQL	Data Storage	Storing structured research data, managing large datasets, building relational databases for complex research projects.
Postgres	Data Storage	Similar to MySQL, providing a robust open- source relational database for research data management.
Gmail	Communication	Automating survey distribution, sending reminders to participants, contacting potential collaborators, receiving alerts about new publications.
Outlook	Communication	Similar to Gmail, facilitating automated communication for various research-related tasks.
Slack	Communication	Facilitating team communication and collaboration, sending notifications about research progress, integrating with other research tools.
Discord	Communication	Creating research communities, facilitating discussions among researchers, sharing information and updates.
Twitter (X)	Social Media	Collecting social media data for analysis, monitoring public opinion and trends, identifying potential research participants or experts.
LinkedIn	Social Media	Identifying potential collaborators, analyzing professional networks, disseminating research findings to a wider audience.
Facebook Graph API (incl. Instagram)	Social Media	Collecting social media data for analysis, monitoring trends and sentiment, potentially recruiting research participants.
OpenAI	AI	Generating summaries of literature, assisting with qualitative data coding, drafting sections of research reports, performing sentiment analysis of text data.
Google Cloud Natural Language	AI	Performing advanced text analysis tasks such as sentiment analysis, entity recognition, and topic modeling on research data or social media content.
SerpAPI	Web Interaction	Automating web searches for literature, identifying potential experts, gathering information on emerging research trends.
RSS Feed	Web Interaction https://GA	Monitoring new publications from academic formals and pre-print servers, staying updated on the latest research in specific fields.

3.2.2 Step-by-Step Tutorial

3.2.2.1 1. Setting Up the Trigger

The workflow begins with an RSS module configured to check journal feeds:

- Create a new scenario in Make.com
- Add an "RSS" module as the trigger
- Configure it with URLs of journal RSS feeds (e.g., Nature: https://www.nature.com/nature.rss)
- Set the checking interval (e.g., daily at 7 AM)
- Add "Continue only if..." filter to look for your research keywords in the article title or abstract

3.2.2.2 2. Enriching the Data

Once relevant articles are identified:

- Add an HTTP module to retrieve the full text when available
- Connect to OpenAI or Claude API to generate a concise summary
- Use a JSON parser to extract structured metadata (authors, journal, DOI)

3.2.2.3 3. Creating Persistent Storage

To build institutional knowledge:

- Add a Google Sheets or Airtable module
- Configure it to add a new row with article metadata, summary, keywords, and retrieval date
- Set up formulas in your sheet to calculate relevance scores and track citation metrics over time

3.2.2.4 4. Generating the Research Digest

Finally, compile and distribute findings:

- Add an aggregator module to collect all articles processed in the last 24 hours
- Use a text formatter to create a structured email with articles sorted by relevance
- Connect an email module to send the digest to yourself or your research team
- Optionally add a Slack or Teams module to post highly relevant findings to a research channel

3.2.3 Advanced Functionality

The basic workflow can be extended with:

- Citation network analysis by cross-referencing papers with their cited works
- Automated PDF downloading and organization in cloud storage
- Integration with reference managers like Zotero or Mendeley
- Sentiment analysis to identify controversial or breakthrough papers
- Custom classification of papers by methodology, field, or relevance to specific projects
- Streamlined manuscript formatting workflows that automatically handle journal-specific styles, citation formats, and reference management
- Automated meta-analyses and systematic reviews that identify relevant studies, extract key data points, and generate preliminary statistical summaries

- Transcription and annotation services for interviews or fieldwork recordings with automatic theme identification
- Automated extraction of tables, figures, and key data from PDF papers for comparative analysis
- Batch processing of research images with consistent adjustments, measurements, and metadata tagging
- Streamlined formatting and bibliography generation that follows specific journal guidelines, converting between citation styles with a single click
- Automated transcription of interviews, focus groups, or lecture recordings with speaker identification and key theme extraction
- Research data preprocessing pipelines that clean, normalize, and prepare datasets for analysis without manual intervention
- Customized publication tracking that monitors impact metrics, social media mentions, and downstream citations of your work
- Comprehensive systematic review automation that searches multiple databases, screens abstracts, extracts standardized data, and generates preliminary evidence tables

3.2.4 Implementation Considerations

When building this system:

- Start small with 2-3 key journals before scaling
- Create careful keyword filters to avoid information overload
- Consider privacy and copyright limitations when storing and processing full texts
- Implement error handling for API rate limits and service disruptions
- Document your workflow to enable iterative improvement

The power of this approach is that it requires no programming but creates a sophisticated research intelligence system that would traditionally require a dedicated research assistant. Once configured, the system runs autonomously, delivering consistent results with minimal ongoing maintenance.

4 Building Research Assistants

While research automation focuses on creating autonomous workflows, research assistants offer a more interactive approach to augmenting research capabilities. Interestingly, many of the same platforms used for automation can be adapted to build these assistants.

4.1 The Simplicity of Research Assistants

Research assistants are often simpler to create than full automation systems. Rather than designing complex workflows with multiple interconnected steps, assistants typically focus on providing expert guidance or performing specific tasks on demand. This on-demand nature makes them particularly accessible for researchers without technical backgrounds.

4.2 Common Research Assistant Applications

- Reference Formatting Assistants: Specialized tools that can convert citations between different formats (APA, Harvard, Chicago, etc.) by understanding the structural rules of each style
- Literature Review Assistants: Systems that help analyze papers, extract key findings, and organize information into coherent literature reviews
- Method Selection Advisors: Assistants that guide researchers through selecting appropriate methodological approaches based on research questions and constraints

- Writing Coaches: AI systems that provide feedback on academic writing, suggesting improvements for clarity, structure, and argumentation
- Statistical Analysis Guides: Assistants that help researchers select appropriate statistical tests and interpret results

4.3 Tools for Building Research Assistants

Several platforms make it easy to create specialized research assistants without programming expertise:

- Custom GPTs: Allow researchers to create specialized versions of ChatGPT with specific knowledge, capabilities, and instructions. For example, a reference formatting assistant can be created by uploading style guides and providing clear instructions on how to process and convert different citation formats.
- Coze: A platform that enables the creation of AI bots with specialized knowledge and capabilities. Particularly useful for building assistants that can integrate with multiple channels (web, messaging apps) and access external tools.
- Poe: A platform for creating and sharing customized AI assistants with different personalities, knowledge bases, and specialized capabilities. Offers a straightforward interface for non-technical users to build research-focused assistants.

4.4 Case Study: Building a Reference Formatting Assistant

Creating a reference formatting assistant is straightforward with these tools:

- 1. Select a platform like Custom GPT
- 2. Upload reference style guides (APA, Harvard, MLA, Chicago, etc.) as knowledge documents
- 3. Create clear instructions that outline:
 - How to identify the current format of a reference
 - The specific rules for converting between formats
 - Common edge cases and how to handle them
 - The expected output structure
- 4. Test with sample references to ensure accuracy
- 5. Refine the instructions based on performance

The resulting assistant can then convert references on demand, saving researchers significant time compared to manual reformatting or learning the intricacies of reference management software.

4.5 The Power of Specialized Instructions

The effectiveness of these assistants largely depends on the quality of instructions provided. Well-crafted prompts that specify:

- The precise task or question domain
- Expected formats for inputs and outputs
- Specific processes or steps to follow
- Common pitfalls to avoid
- Examples of ideal responses

These detailed instructions create focused assistants that perform their specialized tasks with high reliability and minimal supervision.

5 Advanced Research Agents: Deep Research Capabilities

The evolution of AI in research is culminating in the emergence of advanced research agents with capabilities far beyond simple automation or assistant functions. These systems, exemplified by the recent development of "Deep Research" technologies, represent a significant paradigm shift in how academic research can be conducted across disciplines.

5.1 Understanding Advanced Research Agent Capabilities

Advanced research agents represent a significant advancement in AI-powered research tools designed specifically for intensive knowledge work. Built on sophisticated language models and optimized for web browsing and real-world data analysis, these agents can independently discover, reason about, and consolidate insights from diverse online sources. Unlike conventional research assistants, advanced agents conduct autonomous, multi-step research by analyzing text, images, and PDFs, delivering structured reports with clear citations within minutes.

This technology has been developed through reinforcement learning on real-world browsing and reasoning tasks, enabling it to break down complex topics, refine findings, and structure insights efficiently. These agents are particularly effective at discovering niche, non-intuitive information that would typically require browsing numerous websites, making them valuable for specialized academic inquiries.

5.2 Tools for Deep Research

Several platforms now offer deep research capabilities, each with distinct characteristics, strengths, and limitations:

- Gemini Deep Research Google's implementation offers completely free access to deep research capabilities. It performs relatively quickly and produces well-structured results, making it an excellent entry point for researchers new to AI research agents. Its integration with Google's search infrastructure provides comprehensive coverage across scientific domains.
- GPT Deep Research OpenAI's implementation requires a paid subscription but offers significant advantages in terms of customization. It engages users with clarifying questions to refine research objectives, resulting in more tailored outputs. The interactive approach helps researchers articulate complex research needs more precisely, leading to higher quality synthesis of information.
- Manus A Chinese-based deep research system that leverages powerful underlying models. While its processing time is notably slower than competitors, many researchers find the quality of analysis justifies the wait. It is particularly strong in synthesizing information across language barriers and accessing research published in non-English sources. Access requires a subscription.
- Perplexity Offers sophisticated deep research capabilities with Claude Sonnet as its underlying model. Although not free, it produces high-quality results with comprehensive citations. Its browsing capabilities are particularly adept at identifying and integrating information from academic databases and scholarly repositories.
- Browse use an alternative for researchers seeking more control and customizability. While it currently experiences more technical challenges than commercial options and has a steeper learning curve, it offers researchers complete transparency into how information is gathered and synthesized. The open development model means rapid improvements are ongoing, potentially making it more academically rigorous in future iterations.

When selecting a deep research tool, researchers should consider several factors:

- Access requirements: Budget constraints may make free tools like Gemini Deep Research more appropriate for individual researchers or small teams
- Research complexity: More nuanced research questions benefit from the interactive refinement offered by GPT Deep Research
- Time sensitivity: Projects with tight deadlines may necessitate faster tools despite potential tradeoffs in depth

- Linguistic diversity: Research involving non-English sources may benefit from Manus's multilingual capabilities
- Methodological transparency: Research requiring high levels of methodological transparency may benefit from open-source options despite current technical limitations
- Integration requirements: Consider how the research output will integrate with existing workflows and institutional systems

Most academic researchers find that using multiple deep research tools in combination provides the most comprehensive results. For instance, beginning with Gemini for rapid exploration before using GPT Deep Research for more targeted investigation can maximize effectiveness while managing costs. Institutional researchers may have access to premium tools through university subscriptions, expanding the available options.

5.3 Benchmarks and Performance

Recent advanced research agents have demonstrated impressive capabilities in complex reasoning and knowledge retrieval. On comprehensive benchmarks measuring expertise across over 100 academic subjects, leading research agents have achieved significant improvements in accuracy compared to previous models. Their strongest improvements have been noted in chemistry, humanities, social sciences, and mathematics, showcasing their potential value for interdisciplinary research across academic domains.

5.4 Literature Reviews and Systematic Analyses

5.4.1 Automated Synthesis of Research

Advanced research agents can transform how academics approach literature reviews by automating the gathering and synthesis of relevant literature across disciplines. Rather than manually scanning dozens of papers, researchers can request an agent to identify patterns, highlight methodological approaches, and synthesize findings across multiple studies. This capability is particularly valuable for interdisciplinary fields that draw from multiple theoretical traditions.

5.4.2 Gap Analysis and Research Direction

Beyond simple aggregation, these agents excel at identifying gaps in existing literature and suggesting promising research directions. By analyzing publication patterns, methodological approaches, and findings across numerous studies, they can highlight underexplored areas or contradictory results that merit further investigation. This capability helps researchers position their work strategically within the academic landscape and identify high-impact research questions.

5.5 Case Study Development and Analysis

Case studies remain essential methodological tools in many academic disciplines, providing in-depth examinations of specific instances, phenomena, or contexts within real-world settings.

5.5.1 Enhanced Case Study Research

Advanced research agents can significantly enhance the case study development process by gathering comprehensive information about organizations, phenomena, or interventions from diverse sources. They can analyze multiple perspectives, identify contextual factors, and highlight critical decision points, helping researchers create more nuanced and comprehensive case studies.

For researchers analyzing complex social phenomena, these agents can compile insights from academic analyses, policy documents, media coverage, and institutional communications to develop rich, multifaceted case studies. This approach enables more thorough examination of factors contributing to success or failure in various contexts.

5.5.2 Case Studies as Research Communication Tools

Beyond research methodology, case studies serve as powerful tools for research communication. As some scholars have noted, "Case studies can play a crucial role in enhancing research communications on the path to impactful research and scholarship." By leveraging research agents to develop compelling case narratives, academics can more effectively communicate their findings to diverse stakeholders, including advisory boards, external collaborators, policymakers, and potential research users.

5.6 Comprehensive Phenomenon Analysis

Academic researchers frequently need to analyze social and cultural phenomena across diverse contexts and timeframes.

5.6.1 Synthesizing Multi-Source Information

Advanced research agents excel at analyzing phenomena by synthesizing information from academic publications, institutional reports, public discourse, and empirical studies. They can identify emerging patterns, theoretical frameworks, and paradigm shifts that might be missed in more narrowly focused analyses. This capability is particularly valuable for academics seeking to understand how theoretical models apply in rapidly evolving social contexts.

5.6.2 Behavioral and Cultural Pattern Analysis

For researchers studying human behavior in social contexts, research agents can analyze sentiment across multiple platforms, identify behavioral patterns, and synthesize findings from numerous studies. This allows researchers to develop more comprehensive models informed by diverse data sources rather than single studies.

5.7 Interdisciplinary Research Integration

Academic research increasingly crosses traditional disciplinary boundaries, creating challenges for researchers attempting to synthesize diverse methodological approaches and theoretical frameworks.

5.7.1 Bridging Disciplinary Divides

Research agents facilitate interdisciplinary work by helping researchers bridge findings across different fields and methodological traditions. For social scientists, this means more easily incorporating insights from psychology, sociology, economics, and data science into their work. As noted in contemporary discourse on research methods, "Moving forward, how do we, as researchers, develop questions that not only welcome intellectual variety within the sciences but also embrace the diversity represented in societies?"

5.7.2 Cross-Methodology Synthesis

Academic research employs diverse methodologies, from qualitative approaches like ethnography to quantitative methods like structural equation modeling. Research agents can help researchers synthesize findings across these methodological divides, identifying convergent patterns and explaining apparent contradictions. This synthesis enhances the validity and applicability of research findings.

5.8 Digital Communication and Media Analysis

The proliferation of digital communication platforms presents both opportunities and challenges for researchers seeking to analyze discourse patterns, influence networks, and content trends.

5.8.1 Content Analysis at Scale

Advanced research agents enable scholars to analyze large volumes of media content, identifying patterns and themes that would be impractical to code manually. This capability is particularly valuable for studying evolving narratives around social phenomena, public policy issues, or cultural trends across diverse media platforms.

5.8.2 Cross-Platform Discourse Dynamics

For researchers investigating how discourse flows across platforms, research agents can track narrative evolution, identify key influencers, and analyze how messages transform as they move between communication contexts. This cross-platform analysis provides more ecological validity than studies focused on single communication channels.

5.9 Ethical Considerations and Limitations

While advanced research agents offer powerful capabilities for academic researchers, their use raises important ethical considerations that must be addressed.

5.9.1 Research Transparency and Reproducibility

When using research agents for academic work, researchers must maintain transparency about their role in the methodology. This includes clearly documenting when and how the technology was used, what prompts were employed, and how findings were validated. Such transparency is essential for research reproducibility and credibility.

5.9.2 Bias Awareness and Mitigation

Like all AI systems, research agents may reflect biases present in their training data and algorithmic design. Academic researchers must remain vigilant about potential biases and implement strategies to identify and mitigate their effects on research outcomes. This is particularly important when studying sensitive social phenomena or marginalized populations.

5.9.3 Human Oversight and Domain Expertise

Despite their advanced capabilities, research agents remain tools requiring human oversight and domain expertise. The most effective applications will combine AI capabilities with human theoretical insight and methodological expertise.

5.10 The Future of Research Agency Applications

The future of academic research will likely involve collaborative intelligence—researchers leveraging advanced agent capabilities while contributing the theoretical insight, methodological expertise, and ethical judgment that remain uniquely human domains. This collaboration between human and artificial intelligence may ultimately enhance both the process and products of academic research across disciplines.