

# Enhancing Library Excellence: A GLOBAL EXCHANGE OF IDEAS



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20 Feb 2025 | Telkom University, Bandung, Indonesia

# AGENDA

## PART A

Introduction to AI in Research.

Exploring AI for academic libraries.

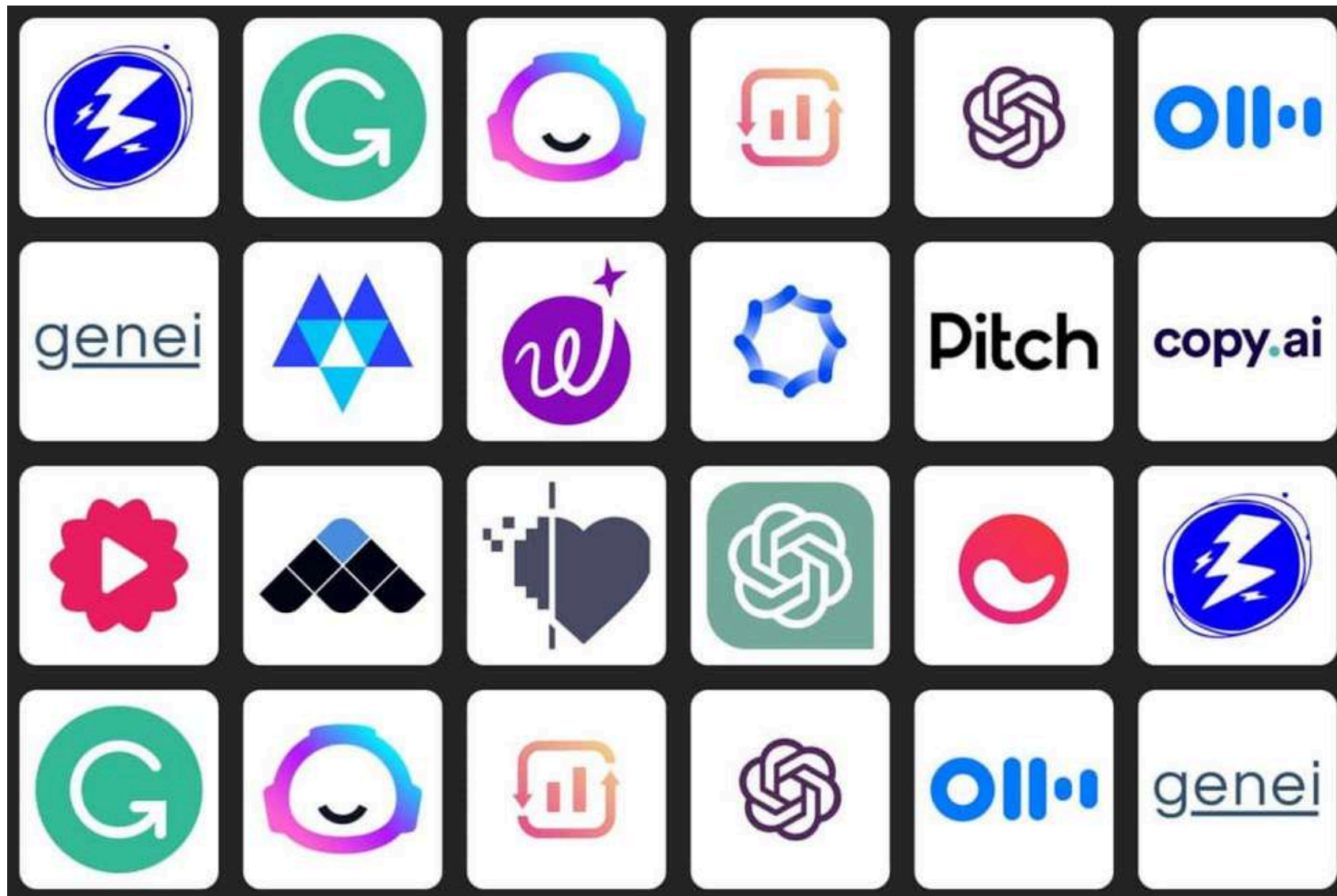
## PART B

- Ethics and dilemmas and challenge in adopting AI
- Strategies to adopt AI in academic libraries

# Introduction to AI in Research



# INTRODUCTION



Artificial Intelligence (AI) is a branch of computer science focused on creating systems that can perform tasks that typically require human intelligence.

These tasks include reasoning, learning, problem-solving, perception, language processing, and decision-making.

# Type of AI For Researchers

## GENERATIVE AI

Refers to a type of artificial intelligence that **can create new content, data, or solutions by learning patterns and structures from existing information.**

### Key Features of Generative AI:

- **Creation of New Content**  
Generative AI can create new data or content that resembles the data it was trained on.
- **Learning from Patterns:**  
vast amounts of data to understand the underlying patterns, structures, or features.

## TASK-SPECIFIC AI

Also known as **narrow AI** or **weak AI**, refers to artificial intelligence systems that are **designed and trained to perform a specific task or solve a particular problem.**

### Key Characteristics of Task-Specific AI:

- **Focus on One Task:**  
Task-specific AI is highly specialized in solving one problem or performing one function.
- **High Efficiency in the Target Task:**  
Because it is optimized for a specific task, task-specific AI typically performs that task with high efficiency, accuracy, and speed.

# EXAMPLE OF AI FOR RESEARCHERS

## Generative A.I.

- ChatGPT
- Copilot
- Midjourney
- Sora
- Assistant (at scite)

## Task-specific A.I.

- Turnitin
- Writefull
- scite
- Scholarcy

# Exploring AI for academic libraries



# 1. Information Discovery & Access



**AI-Powered Search Engines:**  
Enhance search accuracy with natural language processing (NLP) and advance search.

Popular search results vs accurate search results.





# | Nucleus of Knowledge UM LIBRARY

## Chatbots & Virtual Assistants:

Provide 24/7 support for common queries, guiding users through resources.



Research Repository



A-Z Online Databases



Pendeta Discovery

Search Library Resources



**Chatbot**  
Support Agent

Chatbot 09:42 PM

👋 Welcome back! I'm Seri, your Library digital assistant. How can I help you today?

Chat now

## 2. Collection Management



WorldShare®

ExLibris  
Alma

*koha*  
LIBRARY SYSTEM

### 2.1 Automated Cataloging:

1. **OCLC WorldShare Management Services:** Integrates AI for cataloging and resource sharing.
2. **Ex Libris Alma:** Automates metadata management and resource discovery.
3. **Koha ILS (Integrated Library System):** Open-source software with plugins for automation.

## 2.2 Predictive Analytics:

AI helps forecast future collection needs based on user behavior.

### Tools & Technologies

1. **Ex Libris Alma Analytics:** Offers insights into resource usage and trends.
2. **OCLC WorldShare Analytics:** Provides predictive models for collection and user behavior.
3. **Tableau & Power BI:** Used for visualizing trends from library data.

### Challenges & Considerations

1. **Data Privacy:** Ensuring compliance with data protection regulations.
2. **Model Accuracy:** Regularly updating models to reflect changing user behaviors.
3. **Staff Training:** Building AI literacy among library professionals.



## Analytics



For information about using Alma Analytics in a Network Zone Consortia see the recording [Alma Analytics for Network Zone Consortia](#) (July 3, 2024, 56 Minutes).

### Introduction to Analytics and Terminology

[Springshare Integration](#)

[Analytics Database Refresh](#)

[Designs Analytics Roles](#)

[General Terminology](#)

[Creating a New Report](#)

[Creating a Dashboard](#)

[Navigating Analytics](#)

[The Basics of Working with Analytics](#)

[Running Out-of-the-Box Reports](#)

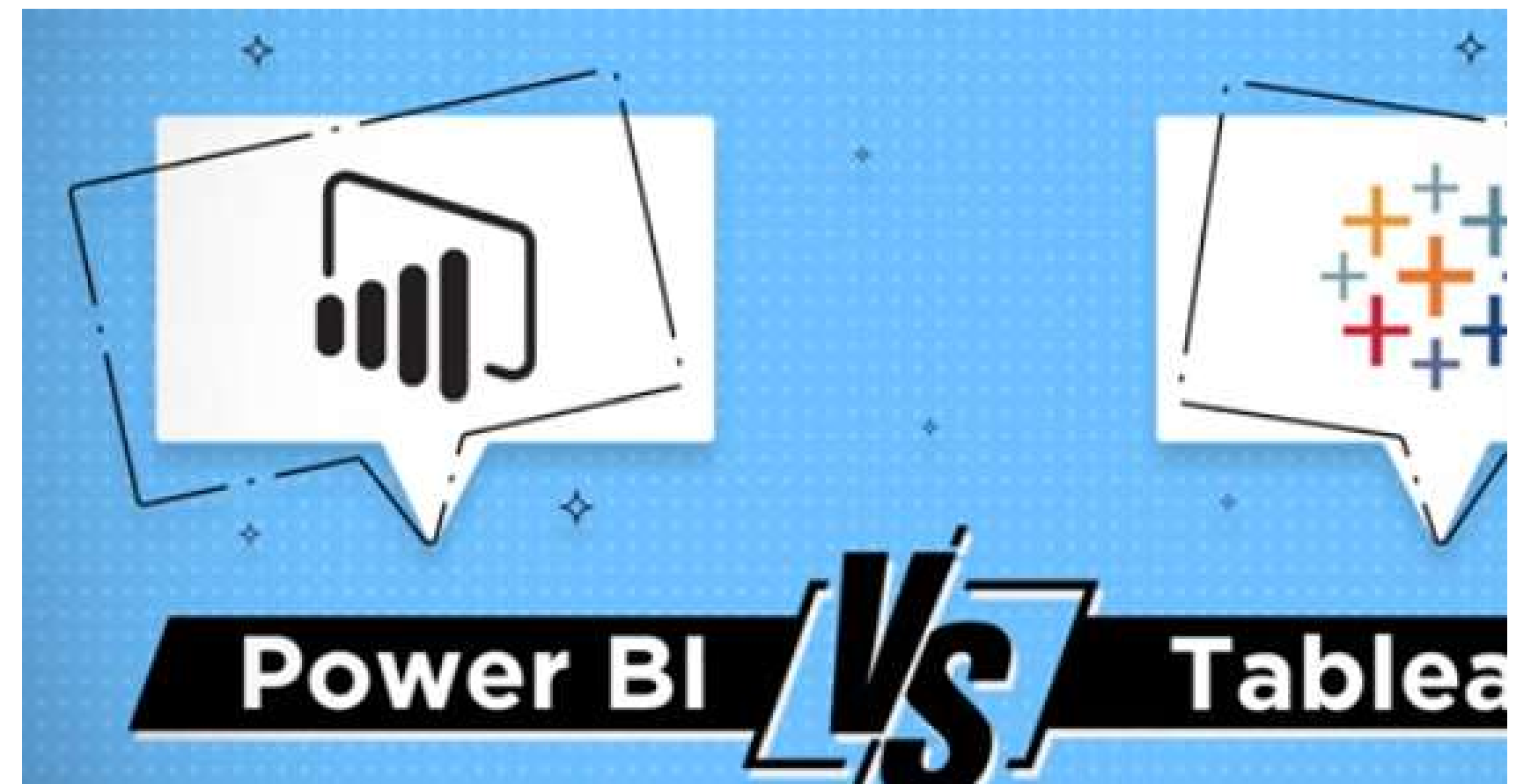
[Community Folder Structure](#)

[Displaying Citation Attributes in Analytics Reports](#)

- a **built-in data analysis and reporting tool** within the Ex Libris Alma library management system, **allowing users to generate reports and dashboards based on a wide range of library activities, providing insights to make data-driven decisions about collections and operations**; essentially, it's a comprehensive business intelligence tool integrated directly into Alma **to analyze library usage data effectively**.

# Tableau & Power BI

- Power BI and Tableau are two crucial Business Intelligence (BI) technologies **used to collect, integrate, analyze, and present business information.**
- They help you **perform data analysis, manipulation, and visualization to make sense of business data and draw insights.**



# Tableau & Power BI

## What is Power BI?

- Power BI is a business analytics service by Microsoft.
- It **provides interactive visualizations and business intelligence capabilities** with an interface simple enough for end-users to create reports and dashboards.
- It **allows users to connect to multiple data sources, clean and transform data, create custom calculations, and visualize data through charts, graphs, and tables.**

## What is Tableau?

- Tableau **is a data visualization and business intelligence tool that enables users to connect, visualize and share data in a highly interactive and intuitive way.**
- It allows users to **quickly analyze and explore large and complex datasets using a drag-and-drop interface without requiring coding or programming skills.**
- Tableau provides a wide range of **chart types and visualization options, such as line charts, bar charts, maps, scatter plots,** and many more.

# 3. User Experience Personalization

## AI Tools & Technologies

- 1. Ex Libris Primo VE:** Personalizes search results using machine learning.
- 2. Springer Nature AI Recommender:** Suggests relevant academic articles based on user behavior.
- 3. LibAnswers by Springshare:** Integrates AI to provide personalized research support.

## How AI Personalizes Library

- 1. Data Collection & Analysis:** AI gathers data from user interactions (e.g., search history, borrowing records, database usage).
- 2. Machine Learning Algorithms:** Identify patterns in behavior to predict future needs.
- 3. Content Delivery:** Dynamically adjusts recommendations, notifications, and interfaces based on user profiles.

# 4. Research support

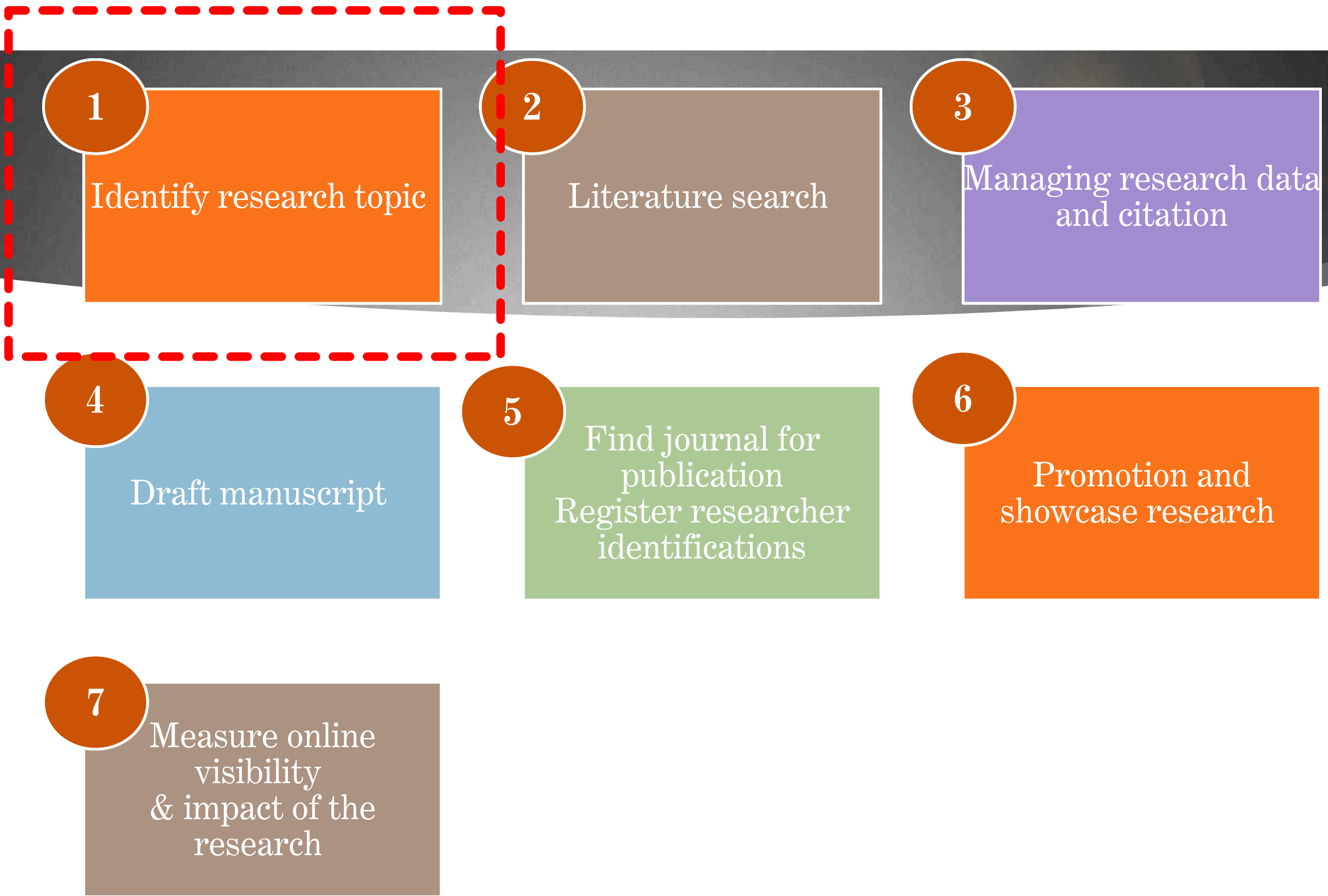




# Research workflow



# Research workflow



# 1. IDENTIFY RESEARCH TOPIC

## Current Method

- Google Scholar
- Index database – Scopus / WoS
- Thesis and dissertation
- Research article
- Books
- Reports



## To study

- Publication trends
- Prominent authors
- Research gaps
- Prominent countries
- Future research
- Dominant subject in that research topic

IDENTIFY RESEARCH TOPIC :

# Use Natural Language Processing (NLP)

## AI Tools:

GPT-based tools, Semantic Scholar, or connected platforms like Iris.ai.



## Approach:

Input general areas of interest, and NLP tools can summarize recent papers, highlight trending research questions, and identify gaps in existing studies.

They can **help in generating summaries, topic modeling, and even keyword analysis to find specific focus areas.**

## Example

Input keywords like “work performance” or “employee productivity” **to find papers and summaries, then analyze common themes and under-researched topics.**

# Effective prompts

## For Academic Writing

- "Explain **[concept]** in simple terms suitable for a beginner."  
Example: "Explain bibliometrics in simple terms suitable for a beginner."
- "Provide a comprehensive outline for a research paper on **[topic]**."  
Example: "Provide a comprehensive outline for a research paper on the impact of AI on academic libraries."

## For Professional Use For Everyday Use

- "Draft a professional email addressing **[specific issue]**."  
Example: "Draft a professional email to invite a guest speaker to a library workshop."
- "Suggest innovative ideas for **[specific professional scenario]**."  
Example: "Suggest innovative ideas for promoting library services to postgraduate students."
- "Plan a trip itinerary for **[location]** for **[X]** days, including cultural landmarks and food spots."  
Example: "Plan a trip itinerary for Tokyo for 3 days, including cultural landmarks and halal food spots."
- "Suggest healthy meal ideas for a busy schedule."

# For Advanced Requests

**1**

**"Analyze the pros and cons of [specific decision or strategy]."**

Example: "Analyze the pros and cons of transitioning to fully digital academic libraries."

**2**

**"Simulate a debate between [perspectives] on [topic]."**

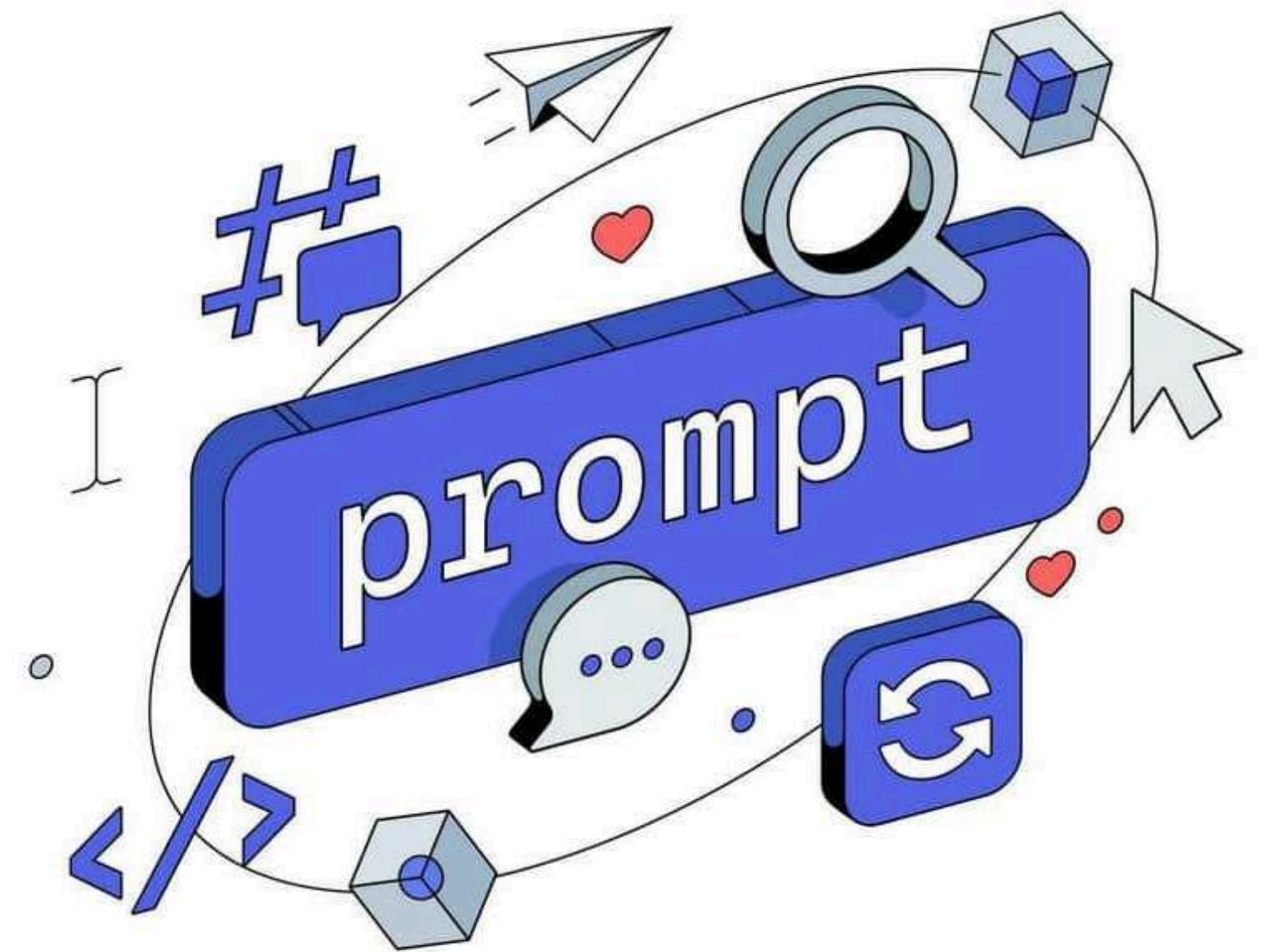
Example: "Simulate a debate between traditional library models and AI-enhanced libraries."

**3**

**"Explain how [specific tool] works step-by-step."**

Example: "Explain how EndNote software works step-by-step for citation management."

The length of the prompt can impact the quality of the response, but longer doesn't always mean better.



# ChatGPT vs. Gemini vs. DeepSeek



## ChatGPT

ChatGPT is the AI that talks like you do

Gives **well-organized**, detailed explanations.

## Gemini



Gemini is built for more than just text

Offers **research-heavy** responses with verifiable sources.

## DeepSeek



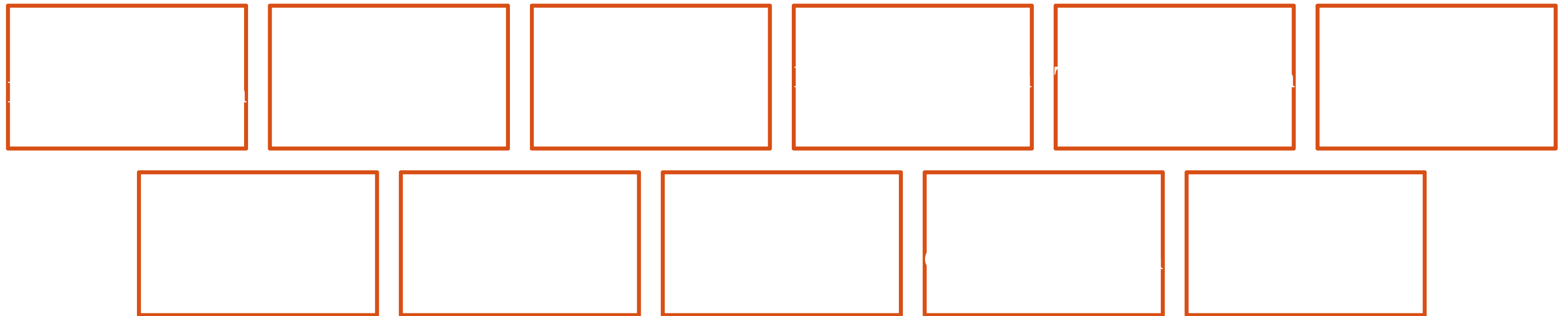
DeepSeek is powerful, yet high-risk

Provides brief, summarized explanations; **limited public information compared to other models.**



	ChatGPT:	Gemini:	DeepSeek:
<b>WRITING:</b>	Structured, detailed, and well-organized content.	Creative content and simplified explanations, often with links to sources.	Factual, summarized explanations, less creative.
<b>BRAINSTORMING AND CREATIVITY:</b>	Generates <b>multiple creative ideas</b> and structured content.	Similar to ChatGPT but with <b>added multimedia possibilities.</b>	<b>Writes full drafts quickly but lacks variation.</b>
<b>RESEARCH AND LEARNING</b>	Gives well-organized, detailed explanations.	Offers research-heavy responses with verifiable sources.	Provides brief, summarized explanations; limited public information compared to other models.
<b>SPEED AND RESPONSE TIME</b>	Fast, but complex queries take longer.	Efficient, but response time depends on query complexity.	May take more time to respond, even when its response is concise.

# Another Prompt Patterns



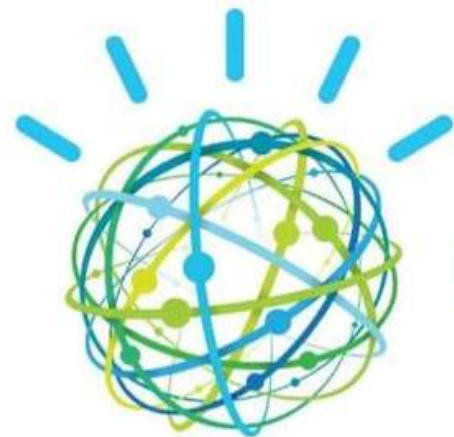
IDENTIFY RESEARCH TOPIC:

# Identify Trends with Data Analytics and Machine Learning

## AI Tools:

Google Trends, IBM Watson, or Tableau with AI plugins.

Google Trends



IBM Watson™



## Approach:

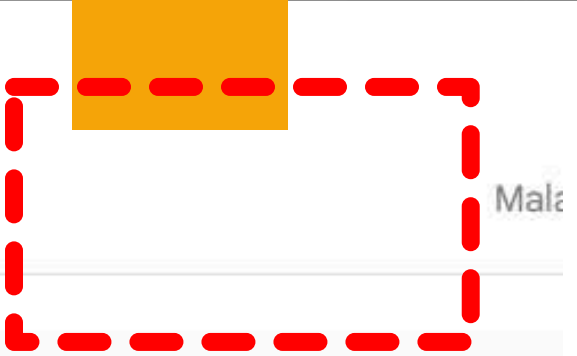
**Analyze large datasets or social media posts to identify what's currently trending.**

For example, trend analysis on Twitter or Google can reveal what people discuss related to work performance, remote work, and productivity.

Machine learning can cluster popular keywords to help identify patterns and subtopics.

## Example

Use Google Trends to explore “remote work productivity” or “AI in employee management” to see trends in interest over time.



Explore what **Malaysia** is searching for right now

tottenham vs chelsea

Explore

Search interest, past 24 hours



Why is **tottenham vs chelsea** trending?

Search it



Chelsea player ratings vs Tottenham: Cole Palmer, that is...  
8 hours ago • Goal.com



Welcome to Premier League's new world order with Marc Cucurella...  
5 hours ago • The Guardian



Confirmed Chelsea line up vs Tottenham | News | Official Site  
12 hours ago • Chelsea Football Club

Dive deeper

Explore issues and events in detail. Curated by the Trends data team.

Explore

Trending now

● resume  
Search term

+ Compare

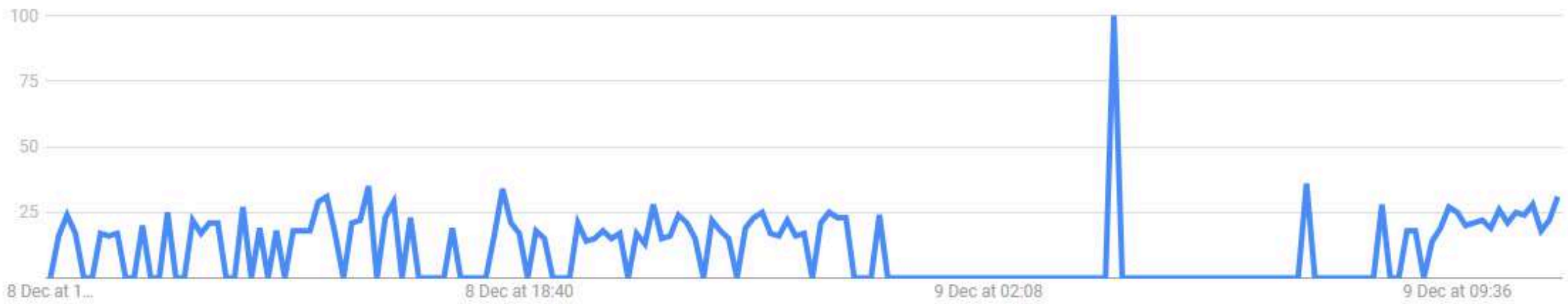
Malaysia ▾

Past day ▾

All categories ▾

Web Search ▾

Interest over time ?



### Interest by sub-region ?

Sub-region



1	Kedah	100	<div><div style="width: 100%;"></div></div>
2	Selangor	74	<div><div style="width: 74%;"></div></div>
3	Terengganu	68	<div><div style="width: 68%;"></div></div>
4	Sarawak	67	<div><div style="width: 67%;"></div></div>
5	Penang	64	<div><div style="width: 64%;"></div></div>

Showing 1-5 of 13 subregions

### Related topics ?

Rising



- 1 Accounting - Professional field Breakout
- 2 Role - Topic Breakout
- 3 Hard skills - Topic Breakout
- 4 Diploma - Degree Breakout
- 5 Objectivity - Religious belief Breakout

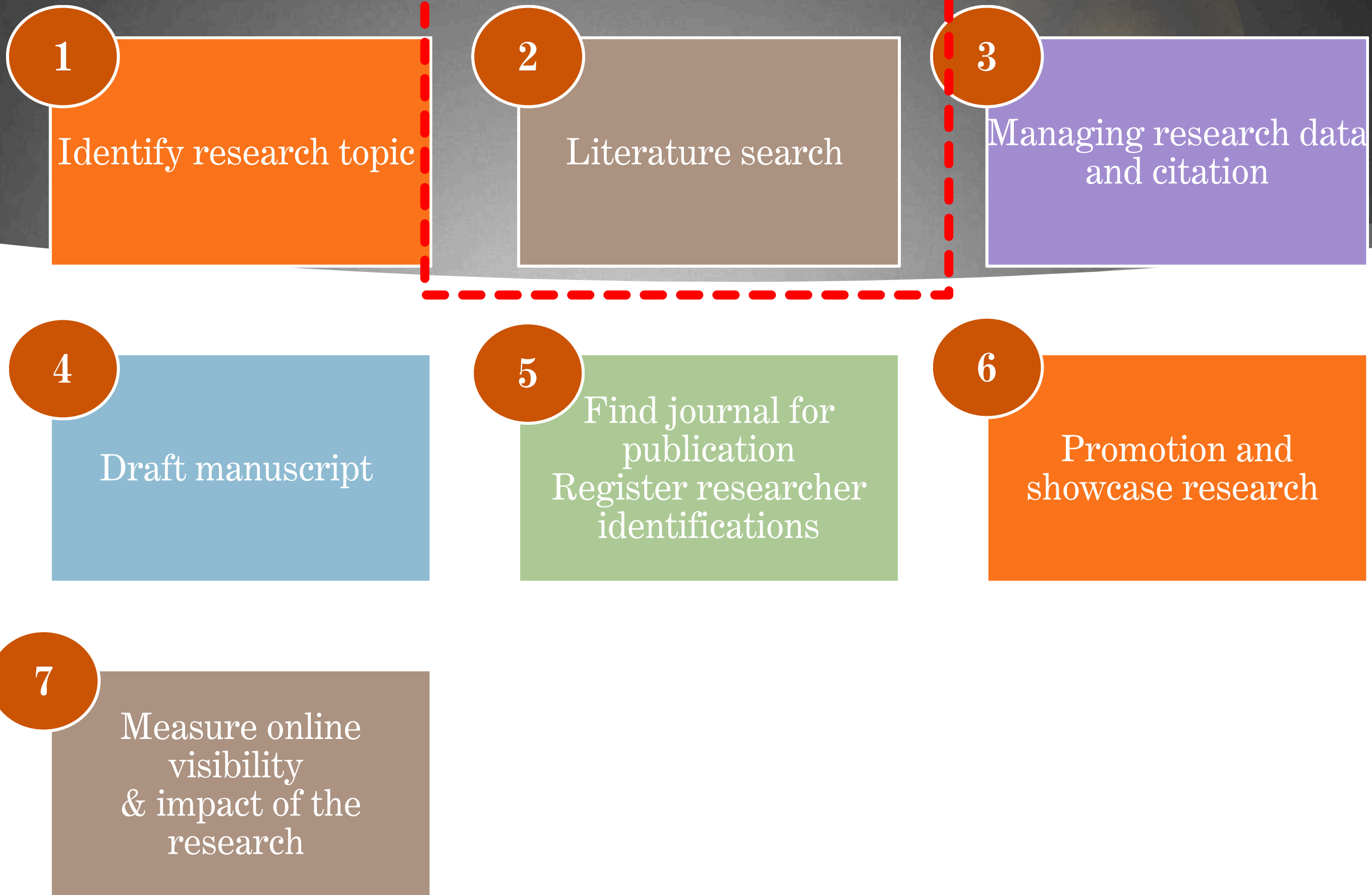
### Related queries ?

Rising



- 1 resume pronunciation Breakout
- 2 free resume templates download Breakout
- 3 skills to put on resume Breakout
- 4 expected salary in resume Breakout
- 5 contoh resume keria kilana Breakout

# Research workflow



# 1. AI-Powered Academic Search Engines

## AI Tools

Semantic Scholar, Google Scholar, Dimensions.ai, Microsoft Academic.



## Approach

These platforms use AI to **enhance search relevance and provide recommendations based on citations, influential papers, and keywords.**

## How to Use

Start with keywords or phrases relevant to your topic, like "hydrogen energy in clean technology," and use filters for publication date, field, or citation count to refine your search.

**Semantic Scholar, for example, highlights key phrases and citation chains, helping identify seminal papers quickly.**





work performance



All Images Videos News Shopping Web Maps More Tools

### AI Overview

Work performance is how well an employee or team completes tasks and responsibilities. It's a multidimensional concept that includes:

- **Task performance:** The ability to complete work and prior experience
- **Contextual performance:** Voluntary, interpersonal, organizational, or group-oriented behaviors
- **Agility performance:** The ability to adjust and respond to changes

Managers can use work performance to evaluate employees and teams, and to make decisions about promotions, bonuses, and pay raises. Some factors that managers consider when evaluating work performance include:

Show more

AI embedded

Learn more

Job Performance - an overview | ScienceDirect Topics  
It is considered as a multidimensional concept, including task performance (the ability to complete work and prior...

ScienceDirect.com

12 Effective Ways To Improve Work Performance - Retorio

11 Oct 2023 — What is work performance? Work performance refers to the history of performance at work in relation to how...

What is work performance? Work performance refers to your history of responsibilities and ability to complete your job well. Employers can measure your performance based on a variety of factors, including whether you complete tasks on time and according to expected standards. 15 Aug 2024

Indeed  
<https://www.indeed.com> > ... > Career development

12 Ways To Improve Your Performance at Work | Indeed.com



AI embedded



About 1,740,000 results



Indeed

https://www.indeed.com/career-advice/career

# 45 Examples of Effective Performance

Apr 8, 2024 · Learn how to write effective performance reviews based on different key competencies. See 45 examples of team members to perform at their best.

## 12 Ways To Improve Your Performance

Work performance refers to your history of responsibility. Employers can measure your performance based on...

See results only from indeed.com

**Copilot**  
Your everyday AI companion

- Find the right questions**  
Suggest common questions that can be asked to get a retrospective started with my colleagues
- Stand out on socials**  
What are some tips for writing a great LinkedIn post?
- Going on holiday?**  
Write some funny Out of Office email responses to use while I'm on vacation from <placeholder> Dec 15-27 </placeholder>
- Interview warning signs**  
What are some red flags to watch out for during an interview?
- Code a binary search in Python**  
Write a Python script to perform binary search
- Show me the result**  
Execute and explain this code...

Microsoft Academic

Ask me any  
0 / 8000

View prompts



TOTAL

Any time

Since 2024

Since 2023

Since 2020

Custom range...

Sort by relevance

Sort by date

Any type

Review articles

include patents

include citations

Create alert

The modeling and assessment of **work performance**

JP Campbell, [BM Wiernik](#) - *Annu. Rev. Organ. Psychol. Organ ...*, 2015 - [annualreviews.org](#)

... of **performance** in a **work** role. We highlight recent advances in the measurement of **performance**, including the use of ratings, **work** simulations, and technology-enhanced **performance** ...

☆ Save [Cite](#) Cited by 1027 [Related articles](#) All 5 versions [Web of Science: 193](#)

[\[PDF\] umn.edu](#)

[\[PDF\]](#) Ventilation and **work performance** in office **work**

O Seppanen, WJ Fisk, QH Lei - 2005 - [escholarship.org](#)

... **work performance** benefits of increased ventilation. We analysed the literature relating **work performance** ... The studies included in the review assessed **performance** of various tasks in ...

☆ Save [Cite](#) Cited by 438 [Related articles](#) All 17 versions [Web of Science: 178](#) [↔](#)

[\[PDF\] escholarship.org](#)

The contribution of burnout to **work performance**

TA Wright, [DG Bonett](#) - *Journal of Organizational Behavior: The ...*, 1997 - [Wiley Online Library](#)

... three dimensions of burnout and **work performance**. A negative relationship was ... quent **work performance**. However, the results failed to establish relationships among **work performance**...

☆ Save [Cite](#) Cited by 1079 [Related articles](#) All 7 versions [Web of Science: 258](#)

[\[PDF\] jstor.org](#)

Conceptual frameworks of individual **work performance**: A systematic review


[L Koopmans](#), [CM Bernaards](#)... - ... of occupational and ..., 2011 - [journals.lww.com](#)

... and indicators of **work performance**. Causal variables determine or predict one's level of **work performance**, whereas indicators are reflections of **work performance**. For example, job ...

[\[PDF\] jstor.org](#)

**TOTAL****AI embedded**

About 17,800,000 results for "work performance"

Fields of Study Date Range 

Has PDF

Author 

Journals &amp; Conferen

**SEMANTIC SCHOLAR**

A free, AI-powered research tool for scientific literature

Search 222,214,589 papers from all fields of science

Search Try: [Tim Gowers](#) · [Cognition](#) · [Fluid Dynamics](#)

## The Effect of Transformational Leadership on Organizational Commitment and Work Performance

Abu Muna Almaududi Ausat

Suherlan Suherlan

Tepi Peirisal

Zaenal Hirawan

Business ·

[Journal of Leadership in Organizations](#) · 29 March 2022

Introduction/Main Objectives: Organizations must be responsive in an increasingly complicated and competitive business environment. Background Problems: To stay relevant, the leader's role must be... [Expand](#)

 50 PDF Publisher Save Cite

## The Effect of Training on Work Performance and Career Development: The Role of Motivation as Intervening Variable

Dewi Rama Niati

Z. Siregar

Yudi Prayoga

Business, Psychology · 8 May 2021

More coverage from  
Google Scholar

## 2. Automatic Summarization and Key Insight Extraction

### AI Tools

ChatGPT, GPT-4 API, Scholarcy.



### Approach

Summarization tools **can analyze individual articles or groups of papers to produce summaries, highlight key insights, and even extract methodologies or findings.**

### How to Use

Copy abstracts or sections of papers into AI tools to generate summaries, identify recurring themes, and analyze how each paper contributes to your research area.

# ChatGPT

ChatGPT ▾

## What can I help with?

The screenshot shows the ChatGPT interface. At the top, there is a header "What can I help with?". Below it, a document titled "annurev-orgpsych-032414-111427.pdf" (PDF) is uploaded. The text "Summarization and Key Insight Extraction of this article" is displayed below the document. A red dashed box highlights the document upload area and the suggested actions below. The suggested actions are: "Create image", "Summarize text", "Brainstorm", "Surprise me", and "More". A red arrow points from the "Brainstorm" button to the right side of the image.

annurev-orgpsych-032414-111427.pdf  
PDF

Summarization and Key Insight Extraction of this article



### Summary of the Article

The article, "The Modeling and Assessment of Work Performance," by John P. Campbell and Brenton M. Wiernik, examines the conceptualization, dynamics, and evaluation of individual work performance. Here are the key insights:

#### 1. Definition and Importance of Work Performance

- **Central Role:** Individual performance is foundational to economic and organizational success.
- **Scope:** The study focuses on actions contributing directly to organizational goals, distinguishing performance from outcomes and performance determinants (e.g., cognitive abilities, motivation).

#### 2. Models of Performance

- **Historical Evolution:** The understanding of performance evolved from identifying static job tasks to dynamic, multidimensional constructs.
- **Key Models:**
  - **Campbell's Revised Model:** Proposes eight substantive factors such as technical performance, communication, initiative, and leadership roles (hierarchical and peer/team-based).
  - **Core vs. Contextual Performance:** Distinguishes task-specific actions from behaviors supporting the broader organizational environment.

Message ChatGPT



# Scholarcy

## My Libraries

Notes Add paper Export

10 free imports left

### How the weather affects the pain of citizen scientists using a smartphone app

2019 William G Dixon; Anna L. Beukenhorst; Rely Dine Yimer, and others Details

#### Structured summary

Enhance

##### Snapshot

A study analyzing daily data from 2658 patients over 15 months found significant yet modest relationships between pain and relative humidity, pressure, and wind speed, highlighting the potential of citizen-science experiments to collect large datasets on real-world populations to address long-standing health questions.

## My Libraries

### Jump to a section

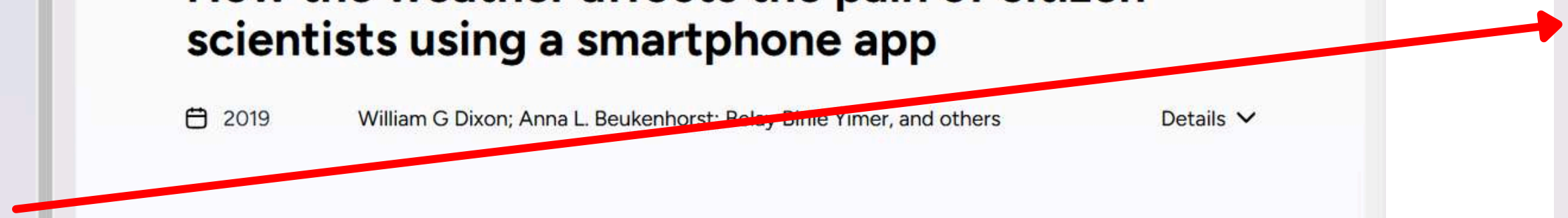
Important points

#### Summary

- Snapshot
- Key findings
- Objectives
- Methods
- Results
- Conclusions
- Key Concepts
- Dig deeper

#### Analysis

- Research quality
- Research comparison
- Limitations
- Future work
- Practical applications
- Subjects and...
- Study compliance



# 3. Automated Reference and Citation Tracking

## AI Tools

Connected Papers,  
Research Rabbit, Scite.



[www.researchrabbit.ai](http://www.researchrabbit.ai)

## Approach

**These tools map out citation networks, showing relationships between papers, co-citations, and citing articles to help you understand the evolution of research on your topic.**

## How to Use

Enter a central paper or topic, and the AI will visualize related works, such as recent studies citing foundational papers or trending topics.

For example, Research Rabbit and Connected Papers provide visual graphs of research networks, which make it easy to identify influential studies and research trends.



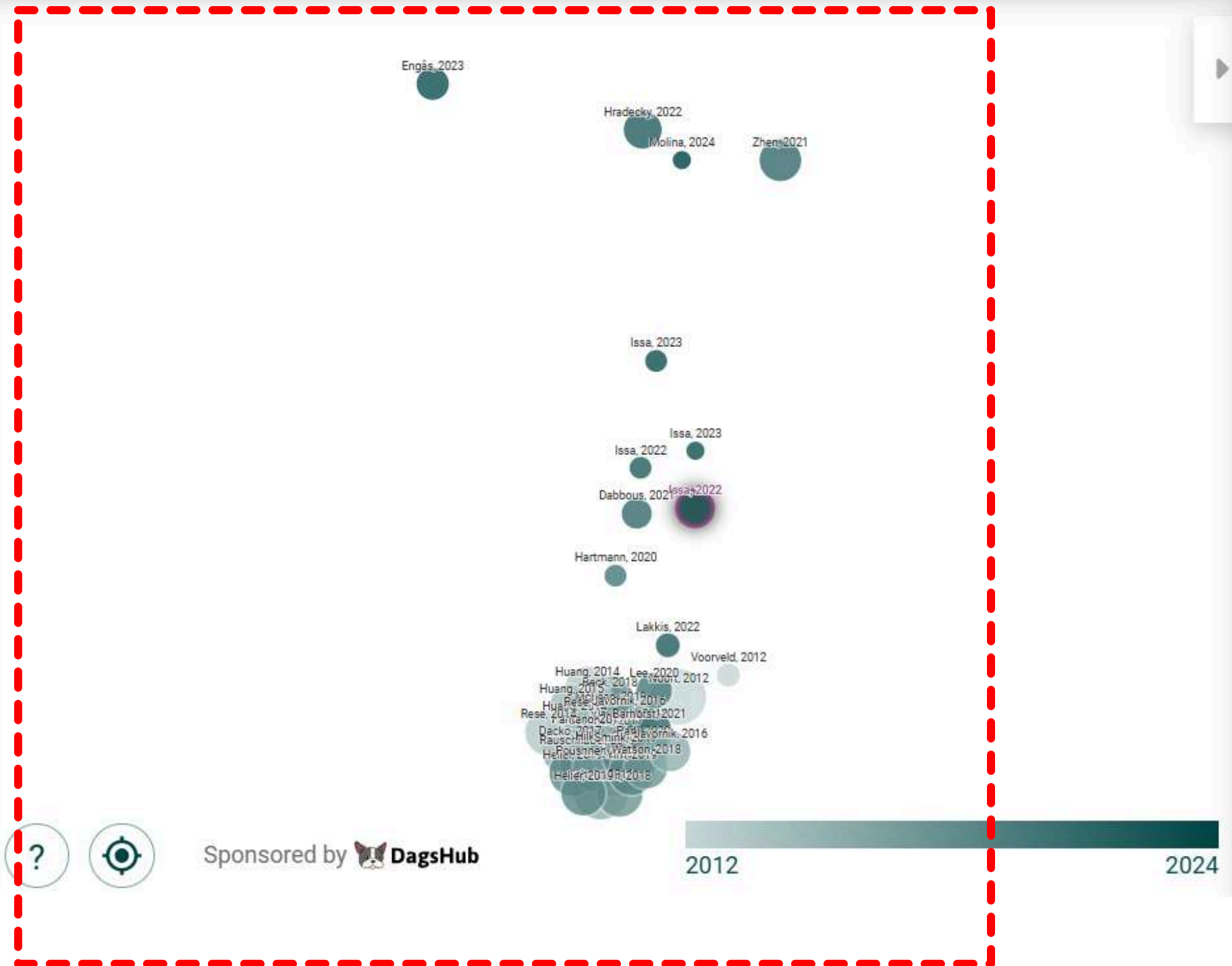
Origin paper
An Artificial Intelligence (Ai)-Readiness and Adoption Framework for Agritech...
Helmi Issa, Rachid Jabbouri, Mark... 2022

'It's an illusion, but it looks real!' Consumer affective, cognitive and...
A. Javornik 2016

AI micro-decisions in FinTechs: a mixed method research design
Helmi Issa, Rachid Jabbouri, R.... 2023

Nexus of Digital Organizational Culture, Capabilities, Organizational Readines...
Zhang Zhen, Zahid Yousaf, M.... 2021

Augmented reality: Research agenda for studying the impact of its media...
A. Javornik 2016



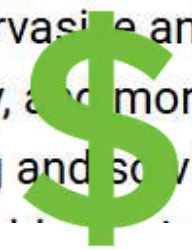
An Artificial Intelligence (Ai)-Readiness and Adoption Framework for Agritech Firms

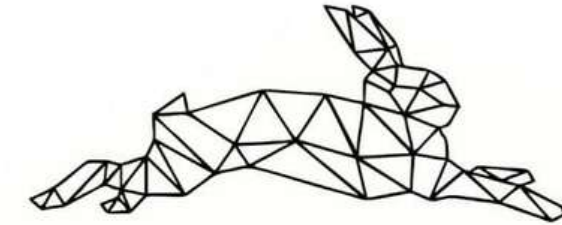
Helmi Issa, Rachid Jabbouri, Mark Palmer 2022, Social Science Research Ne...

31 Citations Save

Open in: PDF icons for various document formats

With the recent technological advancements, empowered by the self-learning capabilities of algorithms, and the increasing power of machines computation, Artificial Intelligence (AI)-driven technologies have become more pervasive and performant, less costly, and more effective at addressing and solving





www.researchrabbit.ai

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**New Category**

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Filter  Custom

Abstracts  Comments [Select All](#)

**Untitled Collection**

Hamzah Hafiz 2023  
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**Trends of Academic Publications on Big Data: A Case Study of Southeast Asian Countries**

International Conference on Information Management

Hamzah ... Abu 2014  
↓ 0

**Knowledge Production by Librarians In Malaysia For Evidence-Based Librarianship**

Ranita ... Faizal 2011  
↓ 0

**Preserving local research articles to create visibility and knowledge sharing among researchers and**

**+ Add Papers**

Similar Work

Earlier Work

Later Work

EXPLORE PEOPLE

These Authors **19**

Suggested Authors **19**

EXPLORE OTHER CONTENT

Linked Content

EXPORT PAPERS

BibTeX RIS CSV

PUBLIC COLLECTION

SHAREABLE LINK **Copy**

COLLABORATORS [Edit](#)

# 4. Use Machine Learning for Systematic Literature Reviews

## AI Tools

Rayyan, Covidence.



## Approach

These platforms leverage AI for **systematic literature reviews, using machine learning to screen, categorize, and appraise studies based on inclusion criteria.**

## How to Use

Upload a dataset of articles, and the AI will help you label, categorize, and prioritize studies. For systematic reviews, Rayyan can assist in tagging and categorizing papers based on your inclusion criteria, making it easier to find high-relevance articles.

# FASTER SYSTEMATIC REVIEWS

Rayyan is trusted by more than 500,000 researchers to organize, manage and accelerate their collaborative



### Effect of Dexamethasone on Infants with COVID-19

Search for Title or ID or Abstract or Author

Review Data Screening

Showing 3,775 Articles

Highlights Auto Scroll Blind Off Compute Rating Copy Export Filters

3,775 All Articles Sort

Prospective, randomized controlled trial on Lac...  
 Date: Invalid Date  
 4  Hossam  Ray  Robert  wrong drug

Randomised, double-blind, placebo-controlled...  
 Date: Invalid Date  
 2  Ray  Robert  wrong population  wrong

Oralair: Sublingual immunotherapy for the trea...  
 Date: Invalid Date  
 Ray  Robert  BOBS REASON

A randomized controlled trial of motavizumab ...  
 Date: Invalid Date  
 1  Ray  Robert

Phenotypic expressions of childhood wheezing ...  
 Date: Invalid Date  
 Robert

#### Prospective, randomized controlled trial on Lactobacillus rhamnosus in infants with moderate to severe atopic dermatitis

Hossam  Ray  Robert  wrong drug  wrong population  My label 4

#### Abstract:

BACKGROUND: A reduction of symptoms of **atopic dermatitis (AD)** in small infants by the administration of **Lactobacillus rhamnosus** has been reported in a few studies. One study with older children and adolescents failed to show any effect. OBJECTIVES: We conducted a prospective study to reassess the efficacy of orally administered **L. rhamnosus strain GG (LGG)** in **infants with AD**. METHODS: In a randomized, double-blind, **placebo-controlled** study, **54 infants aged 1-55 months with moderate to severe AD** were randomized to daily **10 x 10<sup>9</sup> colony-forming units of LGG** or **to placebo** during an 8-week intervention phase. Emollients, class I-II topical **corticosteroids** and **antihistamines** were permitted. RESULTS: The treatment with **LGG** was well tolerated. At the end of treatment there were no significant differences between the groups with

Include  Maybe  Exclude Exclude with Reasons Label

Add note

#### Filters

Keywords for include  Select All

- patient 539
- dexamethasone 145
- men 132
- infant 67

Keywords for exclude  Select All

- survey 330
- ci
- tr
- P
- ci
- re
- ci
- oi
- re



### Main options

Previous studies

Not included

Other searches for studies  
Not included

Individual databases

Not included

Individual registers

Not included

Click to reset

### Identification

Databases

0

Registers

0

Duplicates removed

5

Automatically excluded

8

Other exclusions

0

### Screening

Records screened

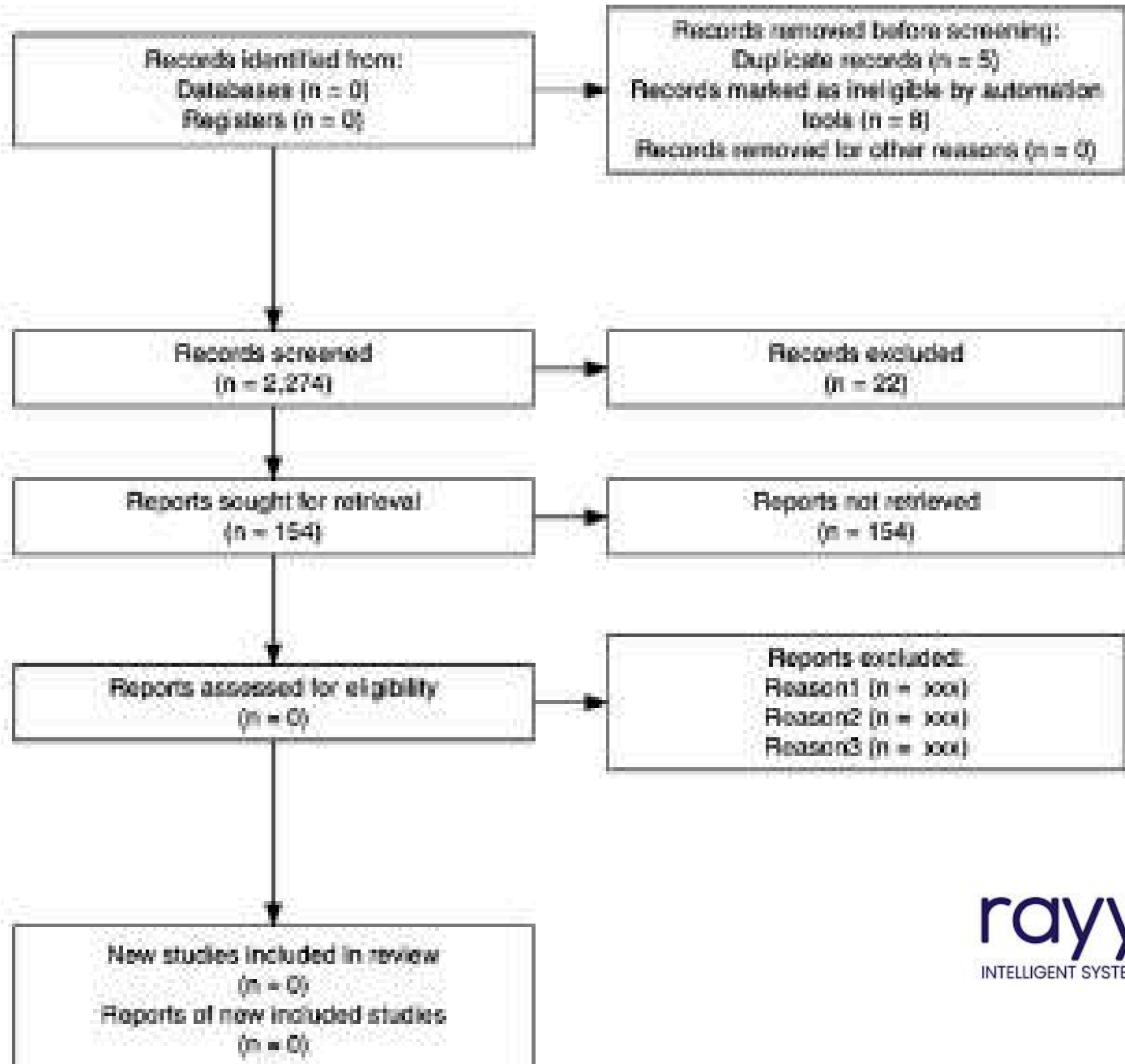
Records excluded

Identification

Screening

Included

### Identification of new studies via databases and registers



# Research workflow

1 Identify research topic

2 Literature search

3 Managing research data and citation

4 Draft manuscript

5 Find journal for publication  
Register researcher identifications

6 Promotion and showcase research

7 Measure online visibility & impact of the research



# 1. Organize and Annotate Research Data with AI-Powered Reference Managers

## AI Tools

Zotero, Mendeley, EndNote.

## Approach

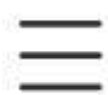
These tools not only store references but **also use AI to suggest related literature, categorize papers, and facilitate annotation.**

Mendeley and Zotero can even suggest readings based on your research history.

## How to Use

Organize your references into folders by topic or project. Use AI-generated tags and suggested keywords for each paper to quickly locate relevant studies, allowing for better organization and retrieval.





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# Research workflow

1

Identify research topic

2

Literature search

3

Managing research data and citation

4

Draft manuscript

5

Find journal for publication  
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Promotion and showcase research

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Measure online visibility & impact of the research



# 1. Organize Your Outline with AI Assistance

## AI Tools

ChatGPT, Notion AI, Scrivener.

## Approach

**Use AI to structure your manuscript by generating an outline with key sections, such as Introduction, Literature Review, Methodology, Results, Discussion, and Conclusion.**

## How to Use

Input your research topic or questions, and ask AI to suggest a detailed outline. AI tools can also help organize subtopics or common headings within each section, ensuring that your manuscript flows logically.





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## 2. Create a Literature Review with Summaries and Citations

### AI Tools

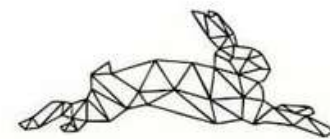
**Scholarcy, ChatGPT, Research Rabbit, Scite**



**scite\_**

### Approach

**Use AI to summarize key studies and organize them by theme or methodology**, making it easier to cover existing research in a structured way.



[www.researchrabbit.ai](http://www.researchrabbit.ai)

### How to Use

Input relevant studies, and ask the AI to generate summaries or highlight common findings. You can organize these summaries to discuss research trends, gaps, or conflicting findings within your field.

Scholarcy, for example, can create “flashcard” summaries that make it easier to reference main points in the literature review.



# Your AI Research Assistant

Get cited answers supported by real research

Ask a question... (type '/' for menu)



Settings Sources

Use Table Mode

Create a literature review of weight loss related GLP-1 research →

Summarize recent research on biofuel production from algae →



work performance in malaysia

work performance in malaysia

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Work performance in Malaysia is influenced by a multitude of factors, including workplace environment, ergonomics, employee satisfaction, and the impact of the COVID-19 pandemic. The interplay of these elements shapes the overall productivity and efficiency of Malaysian employees across various sectors.

One significant factor affecting work performance is the workplace environment. A study highlighted that a crowded and hostile workplace is significantly associated with burnout among healthcare workers in Malaysia, suggesting that workplace conditions can directly impact employee well-being and productivity (Shaharul et al., 2023). Furthermore, the implementation of electronic medical records (EMR) systems has been shown to improve efficiency and reduce burnout, indicating that technological advancements can enhance workplace conditions (Shaharul et al., 2023). This is particularly relevant in the context of Malaysia's healthcare sector, where the transition to digital systems is ongoing.

Ergonomics also plays a crucial role in enhancing work efficiency. Research indicates that awareness and implementation of ergonomic practices in Malaysian workplaces are still lacking, which can lead to health problems and decreased productivity (Jaafar et al., 2020). By promoting ergonomic principles, organizations can mitigate health risks and enhance employee performance. This is particularly pertinent in the context of the increasing reliance on computer-based work environments, where ergonomic hazards are prevalent (Vinothini et al., 2018).

The COVID-19 pandemic has further transformed work dynamics in Malaysia, necessitating a shift towards remote work for many employees. A study examining the effects of working from home during the pandemic found that employee satisfaction, compensation, and organizational culture significantly influenced work efficiency ("Improving Employee Performance of Work Efficiency: A Survey in Employee Productivity in Malaysia during the COVID-19 Pandemic Age", 2023). The abrupt transition to remote work highlighted the need for organizations to adapt their operational strategies to maintain productivity levels while ensuring employee well-being (Hasan et al., 2022). Additionally, the pandemic has underscored the importance of flexibility in work arrangements, which can enhance job satisfaction and performance (Yee, 2023).

Moreover, organizational culture and leadership behaviors are critical determinants of work performance. Research indicates that ethical leadership and organizational justice perceptions positively influence employee behavior and performance in Malaysia's diverse workplace (Halbusi, 2022). Affective commitment among employees has been

Ask a question... (type '/' for menu)

References Search Strategy

"...Apart from that, workplace efficiency could also affect burnout symptoms. This is supported by one local study in Malaysia th..." >>

Section: Discussion  
**Digitallisation Medical Records: Improving Efficiency and Reducing Burnout In Healthcare**  
Nur Adibah Shaharul<sup>1</sup>, Mohd 'Ammar Ihsan Ahmad Zamzuri<sup>2</sup>, Ahmad Azuhairi Ariffin<sup>3</sup> et al. 2023 *IJERPH*

1 0 0 0

View full text Add to dashboard Cite

"...Ergonomics has played an important role to reduce ergonomic hazards and health problems which consequently increase work effi..." >>

Section: Introduction  
**Awareness of Ergonomics Among the Engineering Students**  
Roseleena Jaafar<sup>1</sup>, Amirul Akmal<sup>2</sup>, Zuraira Libasin<sup>3</sup> 2020 *J*

1 0 0 0

View full text Add to dashboard Cite

"...The concept of Industry 4.0 assumes a high-efficiency production by creating a computerized and automated production system <..." >>

Section: Introduction  
**A FUTURE FRAMEWORK FOR MUSCULOSKELETAL DISORDERS SYMPTOMS AMONG COMPUTER OFFICE WORKERS**  
P. Vinothini<sup>1</sup>, Radin Zaid Radin Umar<sup>2</sup>, Y.W. Too<sup>3</sup> et al. 2018  
*International Journal of Physiotherapy*

10 0 5 0

View full text Add to dashboard Cite

"...This study aims to investigate employee productivity in Malaysia during



## 3. Draft the Methodology Section with Clarity and Detail

### AI Tools

ChatGPT, Wordtune, Grammarly.



### Approach

**AI can help articulate your research design, data collection methods, and analytical approach in a clear and structured way.**

### How to Use:

Provide AI with details about your methodology (e.g., qualitative vs. quantitative, sample size, instruments, or data analysis tools used), and ask it to draft descriptions in the correct format. This can help ensure your methods are communicated in a standardized and transparent way.



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# Check for Plagiarism and Ensure Originality

## AI Tools

Turnitin, Grammarly Premium, Quetext



## Approach

AI-based plagiarism detection can scan your manuscript to ensure all content is original or properly cited.



grammarly

## How to Use

Upload your document to a plagiarism checker, which will compare it to a large database of published research and highlight any sections that may need revision or additional citations.

## The Goliath of the Sea

The majestic blue whale, the goliath of the sea, certainly stands alone within the animal kingdom for its adaptations beyond its massive size. At 30 meters (98 ft) in length and 190 tons (210 short tons) or more in weight, it is the largest existing animal and the heaviest that has ever existed. Despite their incomparable mass, aggressive hunting in the 1900s seeking whale oil drove them to the brink of extinction; there are other reasons for why they are now so endangered.

The blue whale's common name derives from bluish-white while its Latin designation is *Balaenoptera musculus*, a suborder of cetaceans, also known as baleen whales, a material, called baleen, attached to the upper jaw, used exclusively on krill, though they also take small numbers up to 40 million krill in a day.

These gargantuan beasts used to dominate all the oceans of the 19th century, when the technology was developed to effectively hunt large whales. This led to the killing of hundreds of thousands of whales. The International Whaling Commission banned the practice in 1966.

The blue whale certainly appears grand in size and beauty, and its communications are also sublime. Amazingly, their vocalizations have a frequency range of 10 to 40Hz. Though they typically communicate like Humpback whales do, some subspecies have been observed to communicate in four notes. Blue whale calls are still not fully understood, and scientists are currently working on determining their purposes. Among the hypotheses, researchers believe the calls could serve to determine one's geographic location, identify individuals, or locate prey.



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# Generate Figures, Tables, and Graphs with AI Visualization Tools

## AI Tools

Tableau, Excel with AI plugins,  
Plotly, Python  
Matplotlib/Seaborn.



## Approach

**For research with data, AI-powered visualization tools can create professional, customized visuals for your manuscript.**



## How to Use

Input your dataset into the tool and specify the type of chart or graph you need.

The AI will automatically suggest or generate visuals, which can then be refined and added to your manuscript.



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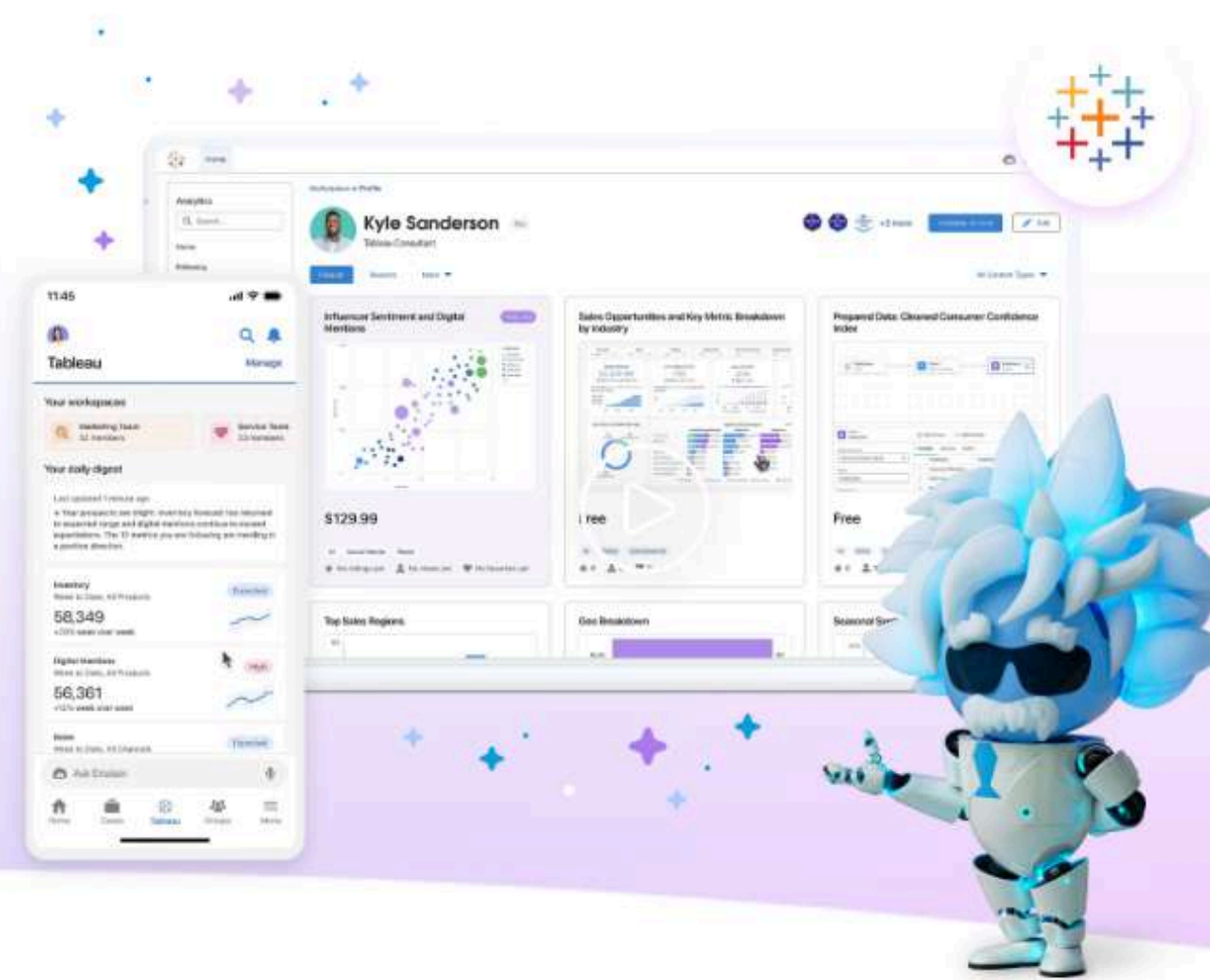
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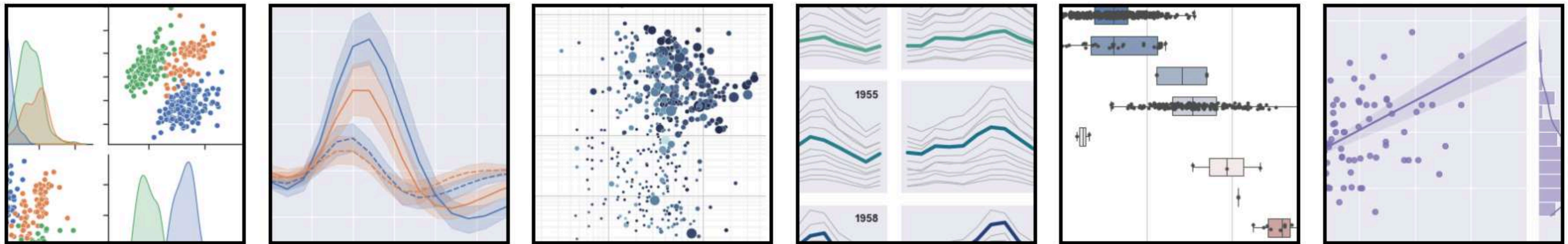
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# seaborn: statistical data visualization #



Seaborn is a Python data visualization library based on [matplotlib](#). It provides a high-level interface for drawing attractive and informative statistical graphics.

For a brief introduction to the ideas behind the library, you can read the [introductory notes](#) or the [paper](#). Visit the [installation page](#) to see how you can download the package and get started with it. You can browse the [example gallery](#) to see some of the things that you can do with seaborn, and then check out the [tutorials](#) or [API reference](#)

## Contents

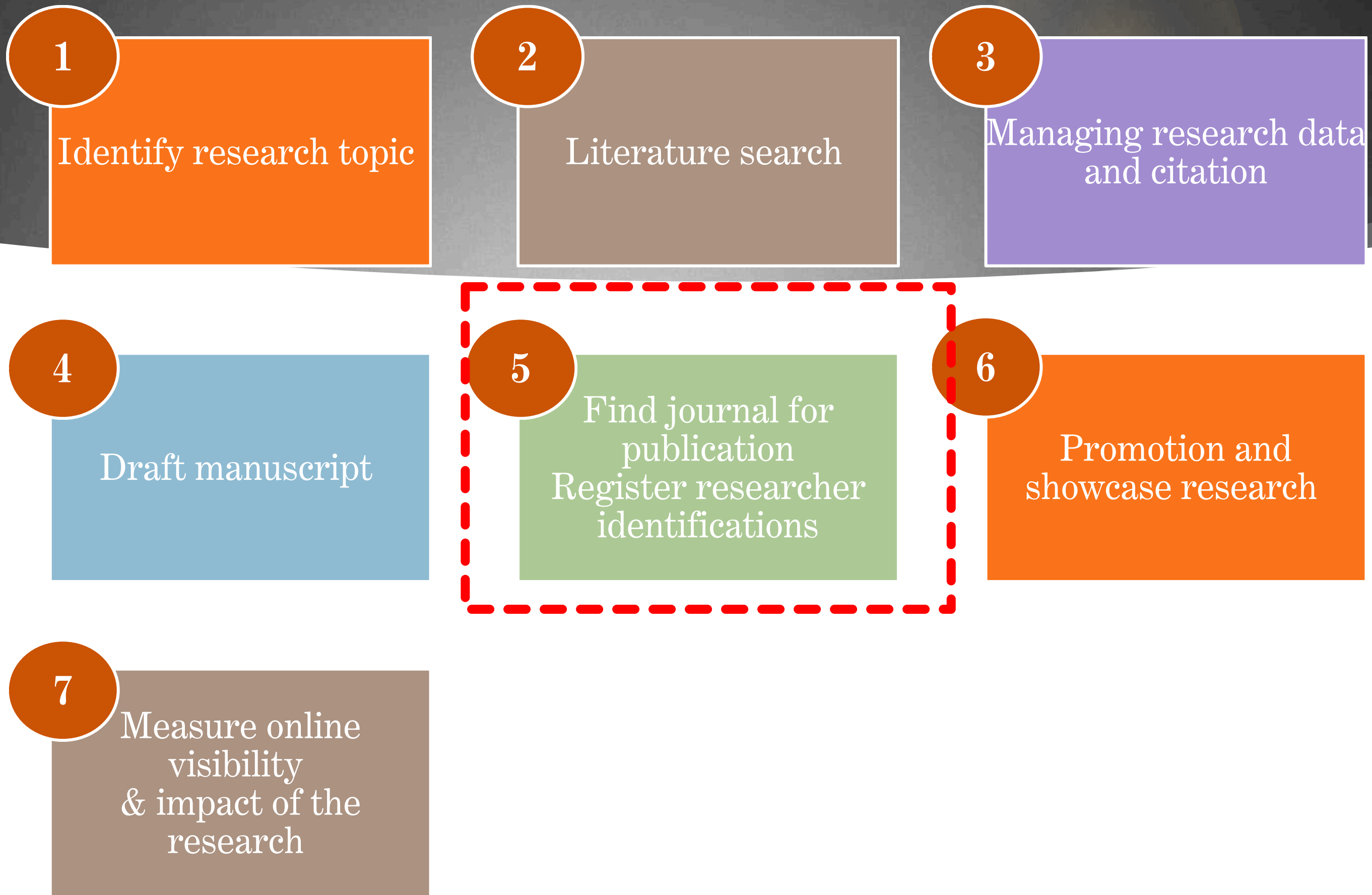
[Installing](#)  
[Gallery](#)  
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[API](#)

## Features

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- Categorical plots: [API](#) | [Tutorial](#)
- Regression plots: [API](#) | [Tutorial](#)



# Research workflow



# 1. Identity Suitable Journals for Publication

## AI Tools

Elsevier Journal Finder, Springer Journal Suggester, Wiley Journal Finder, Edanz Journal Selector.

## Approach

**These tools use AI algorithms to match your manuscript with suitable journals based on its title, abstract, keywords, and subject area.**

They analyze journal scopes, impact factors, and submission requirements.

## How to Use

Input your manuscript title, abstract, and keywords into one of these AI-powered journal finders.

The tool will generate a list of journals that align with your research topic, field, and impact goals.

For instance, Elsevier's Journal Finder also considers your desired peer review speed and journal metrics, helping you make an informed choice.





# Find the right journal for your research

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Showing 40 journals matching your search

Sort by: [Best match](#)

### Publication type

Journals that offer gold OA

Journals with subscription

### Impact factor

All journals



### CiteScore

All journals



## Performance Evaluation

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Impact Factor	CiteScore	Time to 1st decision	Time to acceptance	Acceptance rate
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	Journal Impact Factor	5-year Journal Impact Factor	Downloads	Submission to first decision (median)	Relevance
 <b>International Archives of Occupational and Environmental Health</b> Hybrid <a href="#">Show more</a>	2.6 (2023)	2.9 (2023)	607,881	23 days	●●●●●
 <b>Journal of Occupational Rehabilitation</b> Hybrid Calls for papers <a href="#">Show more</a>	2.1 (2023)	3.0 (2023)	481,468	3 days	●●●●●
 <b>Current Psychology</b> Hybrid Calls for papers <a href="#">Show more</a>	2.5 (2023)	2.6 (2023)	4,354,056	18 days	●●●●●
 <b>Occupational Health Science</b> Hybrid <a href="#">Show more</a>	1.6 (2023)	2.1 (2023)	135,108	8 days	●●●●●

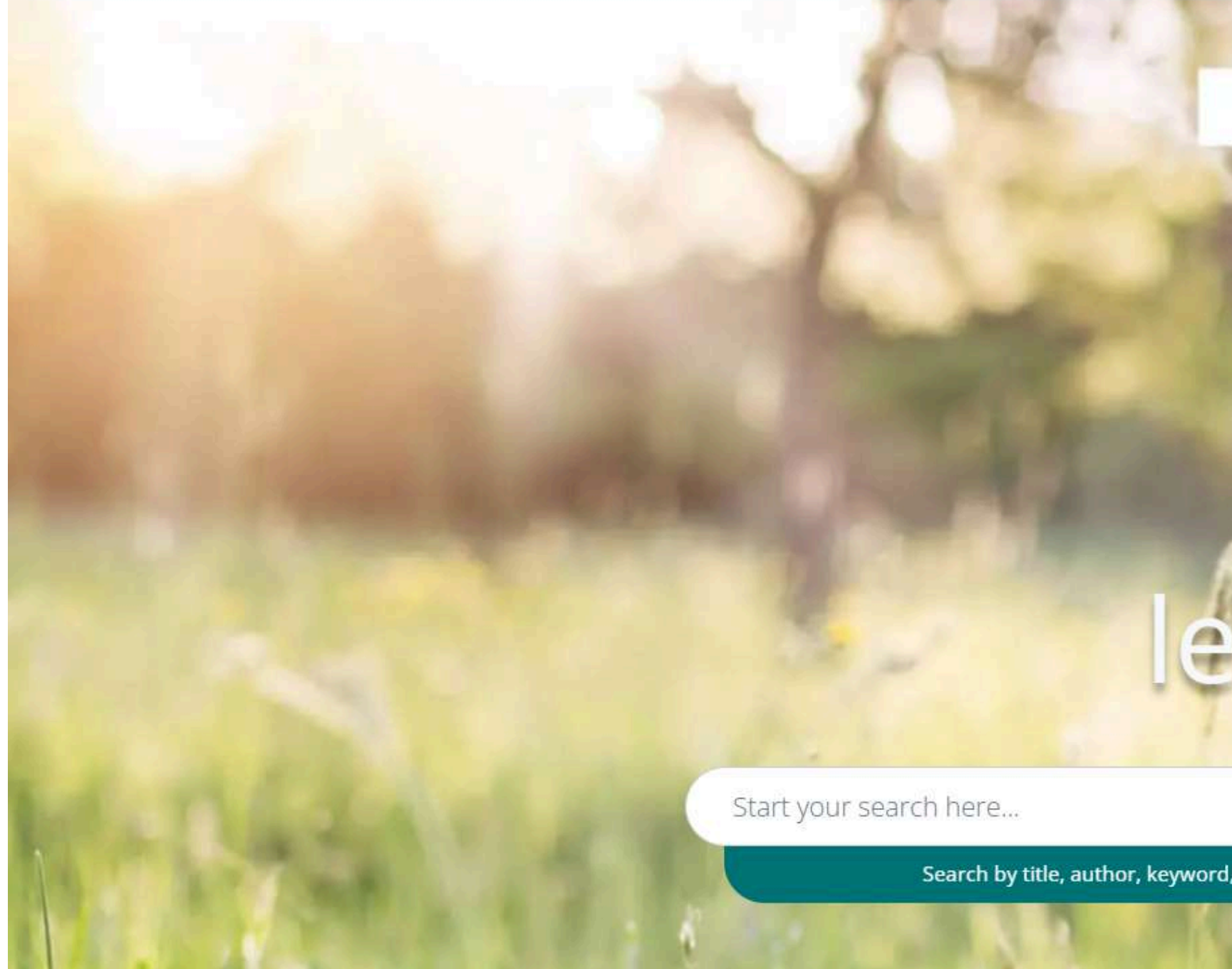
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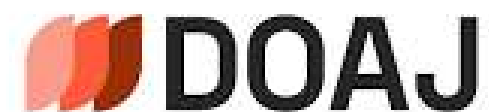
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# Use AI to Find Open Access and Indexed Journals

## AI Tools

DOAJ (Directory of Open Access Journals), OpenAlex, Dimensions.ai.



## Approach

**AI-enhanced databases like DOAJ and OpenAlex focus on open-access journals, indexing reputable journals across disciplines.**

## How to Use

Use DOAJ or OpenAlex to search for indexed, peer-reviewed open-access journals.

You can filter by subject area, and the tool will suggest journals based on your manuscript's keywords and focus area, making it easier to find accessible, high-quality publication options.



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## Find open access journals & articles.

Journals  Articles

<input type="text"/>	In all fields	SEARCH
----------------------	---------------	--------

**80**  
LANGUAGES

**136**  
COUNTRIES  
REPRESENTED

**13,832**  
JOURNALS WITHOUT  
APCS

**21,129**  
JOURNALS

**10,555,336**  
ARTICLE RECORDS



# Set Up a ResearchGate or Academia.edu Profile for AI-Driven Visibility

## AI Tools

ResearchGate, Academia.edu



## Approach

**These academic social networks use AI to recommend papers, connect with collaborators, and track citation metrics based on your profile.**




## How to Use

After registering, complete your profile with your ORCID iD, publication list, and research interests.

The AI on these platforms will recommend content, suggest collaboration opportunities, and automatically update citation counts for your publications.

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Cultural History	60.6 K papers	Early Modern History	49.7 K papers
Urban History	25.9 K papers	Roman History	35.6 K papers
Ancient Greek History	27 K papers	Military History	35.1 K papers

# Use Google Scholar Profile for AI-Enhanced Citation Tracking

## AI Tool

Google Scholar Citations.

## Approach

Google Scholar automatically tracks citations and suggests papers that relate to your work.

It also provides “h-index” metrics to reflect research impact.

## How to Use

Set up a Google Scholar profile and input your publications.

The AI will link citations to your articles, update metrics, and suggest recent publications relevant to your research, allowing for better tracking of research influence over time.

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TITLE	CITED BY	YEAR
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<input type="checkbox"/> Comparison of Public College Librarians' Performance, Competence, and Work Design in Indonesia and Malaysia F Mutia, T Soesantri, H Prasetyo, RT Almi, MF Hamzah, MN Masrek Khizanah al-Hikmah: Jurnal Ilmu Perpustakaan, Informasi, dan Kearsipan 12 (1)	2	2024

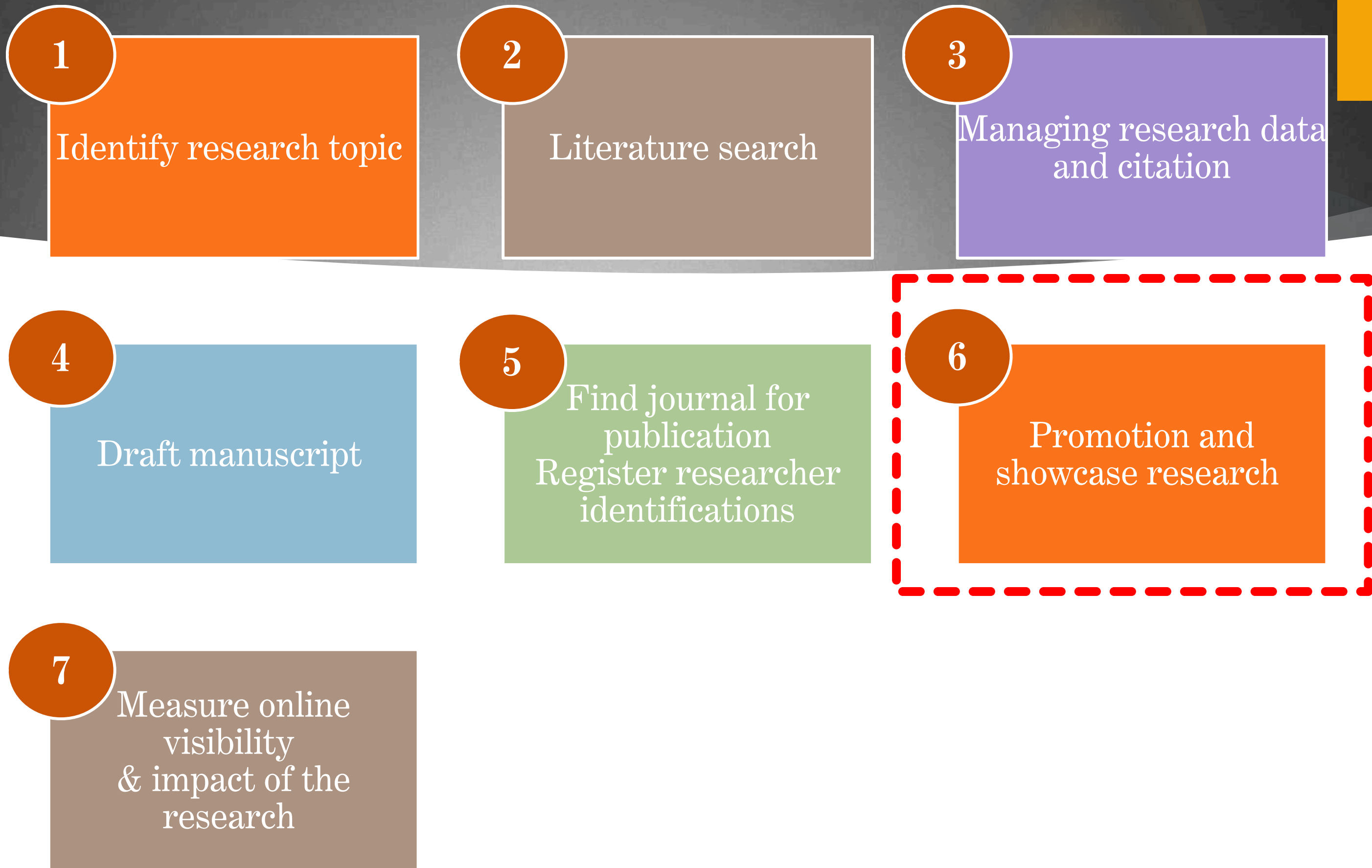
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	All	Since 2019
Citations	18	14
h-index	2	2
i10-index	0	0

2017 2018 2019 2020 2021 2022 2023 2024



# Research workflow



# Create Visual Content and Infographics

## AI Tools

Canva with AI templates,  
Visme, Tableau



## Approach

Visuals like infographics and graphs make complex research findings accessible to a wider audience.

**AI-powered design platforms can suggest layouts, colors, and styles.**

## How to Use

Use a tool like Canva or Visme to turn your data into an engaging infographic.

You can input key data points, and AI will suggest infographic styles or templates that suit your content, enabling you to present findings in a visually appealing way.

# Automate Social Media Sharing and Scheduling

## AI Tools

Buffer, Hootsuite, Lately.ai.



## Approach

These AI-powered tools **can automatically generate social media posts based on your research content, schedule them for optimal reach, and analyze engagement.**

## How to Use:

After creating summaries and visuals, upload them to Buffer or Hootsuite.

These tools **can suggest posting schedules based on your audience's peak activity and even generate hashtags or post text to increase reach.**

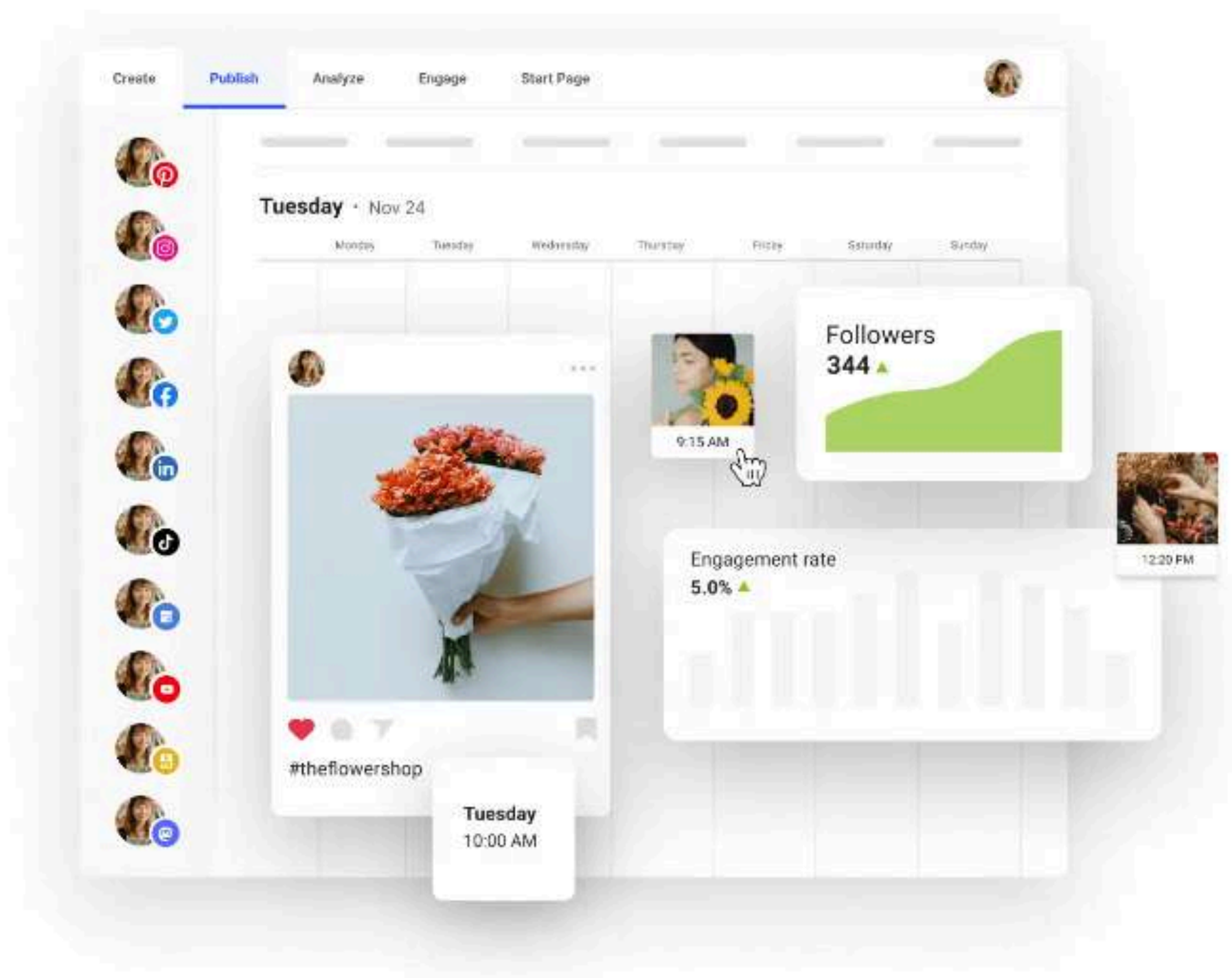
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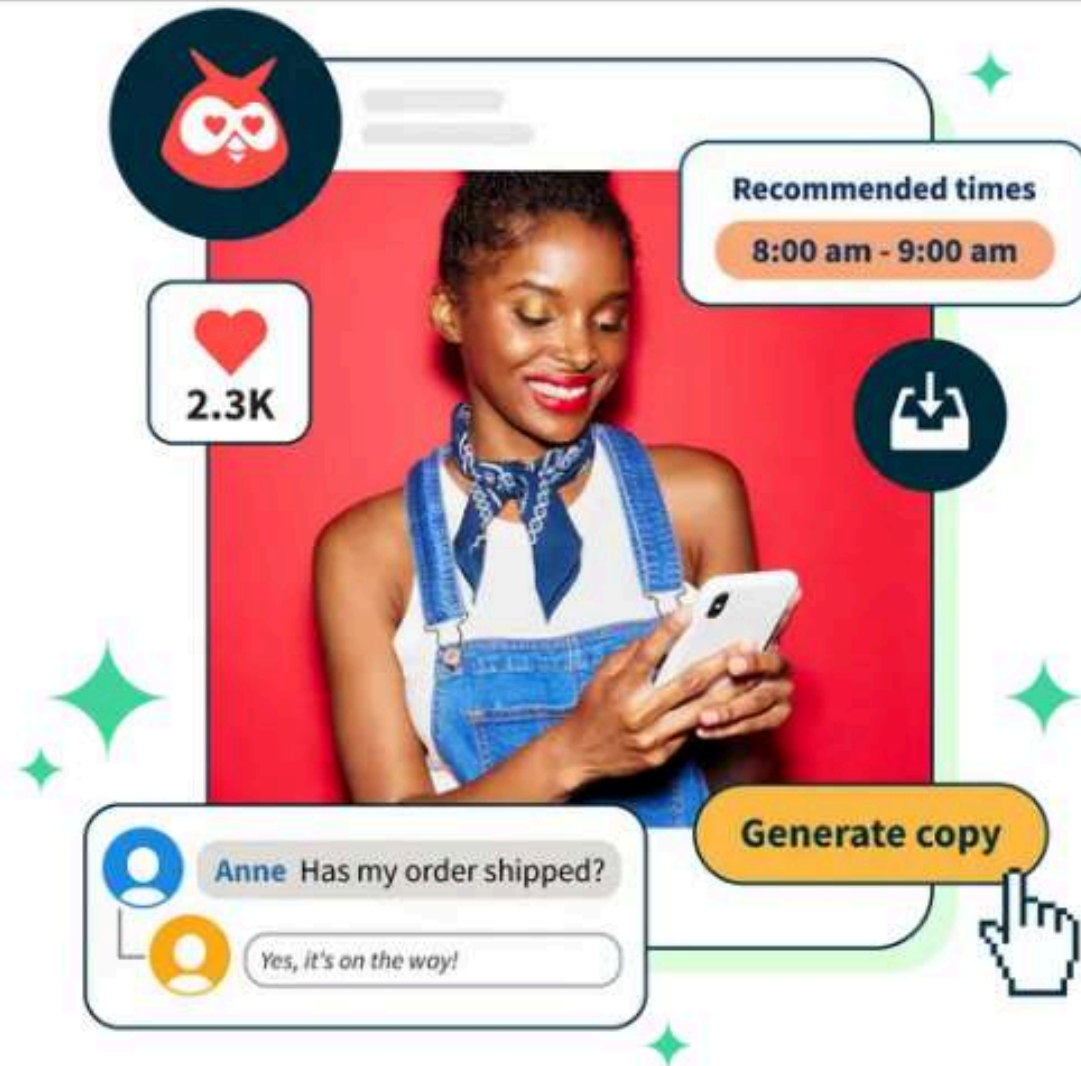
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Details

**Twitter for News** @TwitterForNews 2d  
At The @MiamiHerald, tweeting is about breaking news in the a.m. and conversation in the p.m.  
niemanlab.org/2013/05/at-the...  
Details

**Twitter for News** @TwitterForNews 3d  
TIPS: How The @guardian reached 1 million Twitter followers:  
journalism.co.uk/news/twitter-t...  
Details

**Twitter for News** @TwitterForNews 4d  
You can now filter your in @TweetDeck, in filtering incoming tweets  
pic.twitter.com/59aG2ZENkw  
Details


**Twitter for News** @TwitterForNews 8d  
How to follow another Twitter user's

◀ Back to team

**Alex Girón** @giron

Treats from Japan. Thanks @higepon!  
pic.twitter.com/ooeNPf4T4Y

7:00pm · 23 May 13 · Twitter for iPhone



2 FAVORITES

18 Tweets @TweetDeck

Filtered by: **CONTENT**

Showing: all Tweets

matching: Enter words to match

excluding: Enter words to exclude

retweets: excluded

USERS: Any

ALERTS: None

Clear column

**TweetDeck** @TweetDeck 30d  
There is currently a service issue affecting some TweetDeck users, the engineers are working on it  
status.twitter.com/post/486917473  
Details

**TweetDeck** @TweetDeck 57d  
Just released new Mac and Windows versions, includes the powerful updates to column filters and search  
tweetdeck.com  
Details

**TweetDeck** @TweetDeck 71d  
Our use of the Flight JavaScript framework in TweetDeck  
tweetdeck.posterous.com/flight-at-twee...

19 Team @twitter

Filtered by: **CONTENT**

**Sean Evins** @Evins  
@WRDCarty @AdamS its getting be tuxedo t-shirt weather..  
Conversation

**Peter Greenberger** @pgreenber...  
Twitter Cozies Up to TV With New Ad Products - Digits - WSJ  
on.wsj.com/16R4vSX via @WSJ  
Twitter as a force multiplier for TV  
Details

**Will Carty** @WRDCarty  
@AdamS then... Linen? Seersucker?  
Conversation

**Karen Wickre** @kvox  
via @bморрисsey: Twitter's lesson it's ok not to "disrupt" established media companies. bit.ly/10Xdeie  
"Twitter is additive."  
Conversation

**Lauren M.** @laurmark  
The upside to an early work day the quiet. Oh, and the coffee is e hot.  
Details

**Alec Thomas** @alecthomas  
@robsc Isn't saying you "know" Scala akin to saying you "know" C++?



# Planner

Plan your marketing calendar by creating, scheduling, and managing your content.



Week

Month



Today



## November 2024

Sun 10

Mon 11

Tue 12

Wed 13

Thu 14

**Fri 15**

6:52 AM



Archived

8:33 AM



Archived

8:27 AM



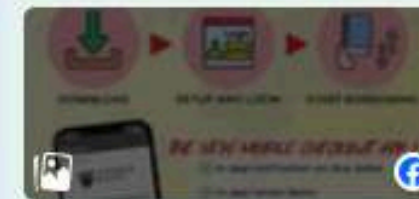
Archived

8:30 AM



Active

8:29 AM



Active

7:06 AM



Archived

9:15 AM



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12:35 PM



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9:04 AM



Active

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Active

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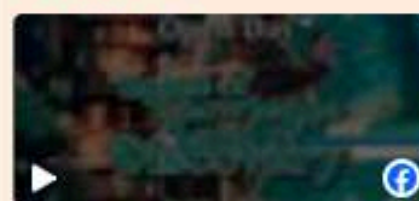
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Archived

9:14 AM



Active

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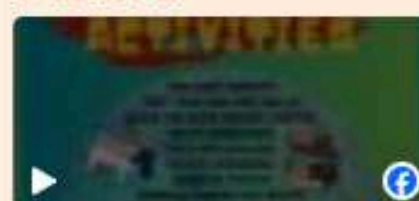
Active

10:13 AM



Archived

12:38 PM



Archived

9:15 AM



Active

8:40 AM



Active

11:46 AM

12:42 PM

10:11 AM

8:33 AM

# Use AI to Create Video Abstracts or Presentations

## AI Tools

Synthesia, Animoto, Lumen5.



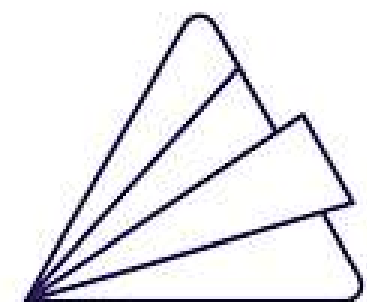
## Approach

**Video abstracts make your research more engaging and accessible, especially on social media.**

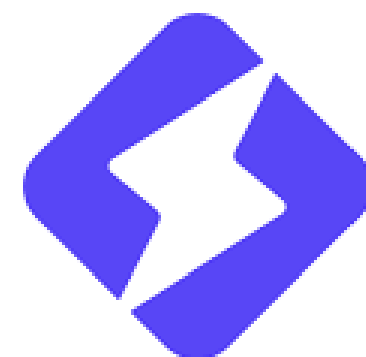
**AI tools can create video summaries by combining text, images, and narration.**

## How to Use

Input a brief summary of your research into a tool like Synthesia or Lumen5. These tools can convert your text into a professional-looking video with narration, making it ideal for platforms like YouTube or LinkedIn.



ANIMOTO



lumen5



← Back

TRY NEW AI AVATARS

# Free AI Video Generator

## 1 Select video template

SYNTHESIA DEMO

SALES PITCH

COMPLIMENT

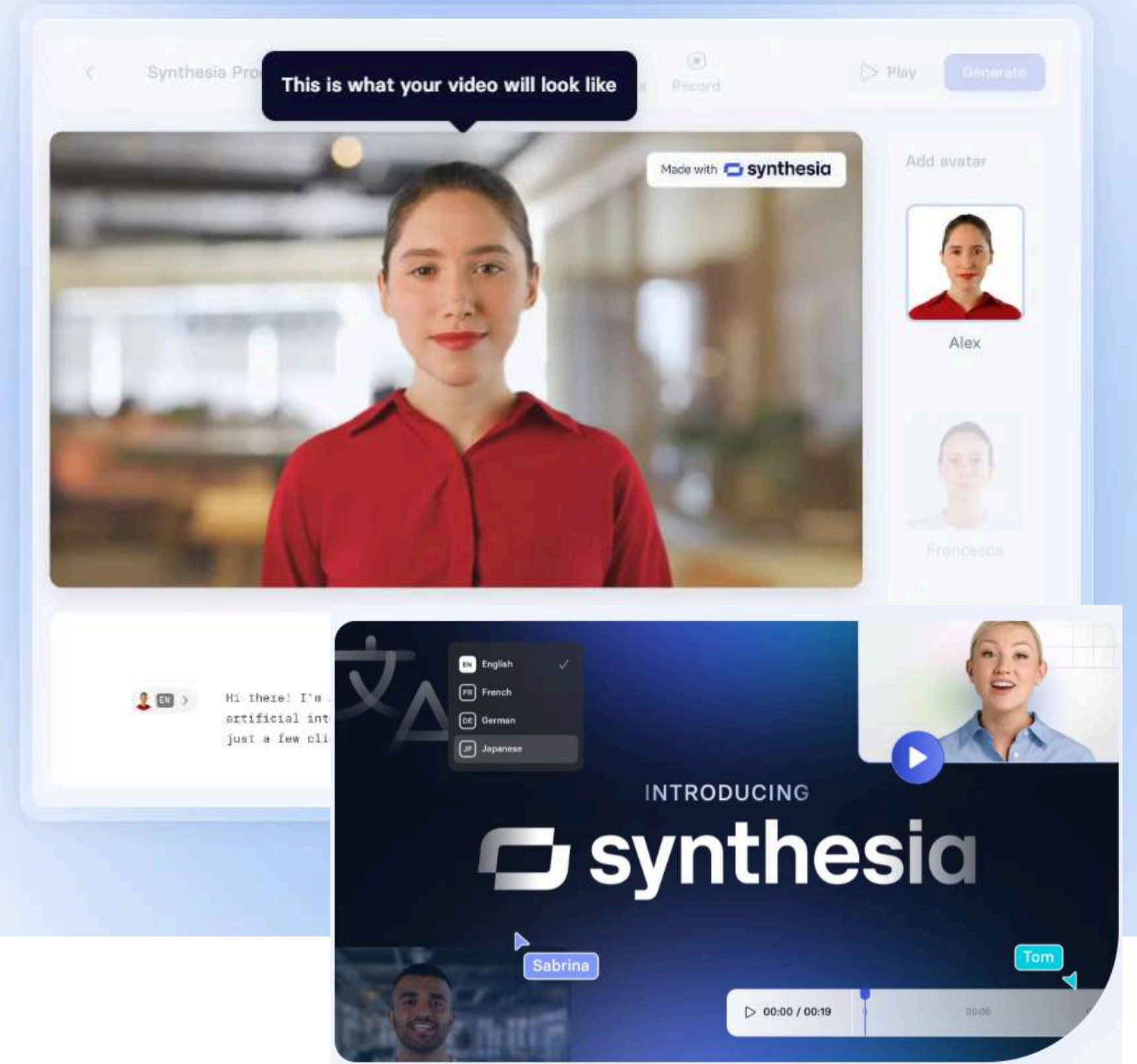
## 2 Edit your video script in any language

Hi there! I'm Alex, and I'm an avatar created entirely by artificial intelligence. You too can create a video like this with just a few clicks! Try it out for yourself today.

26 characters left

Generate Free AI Video

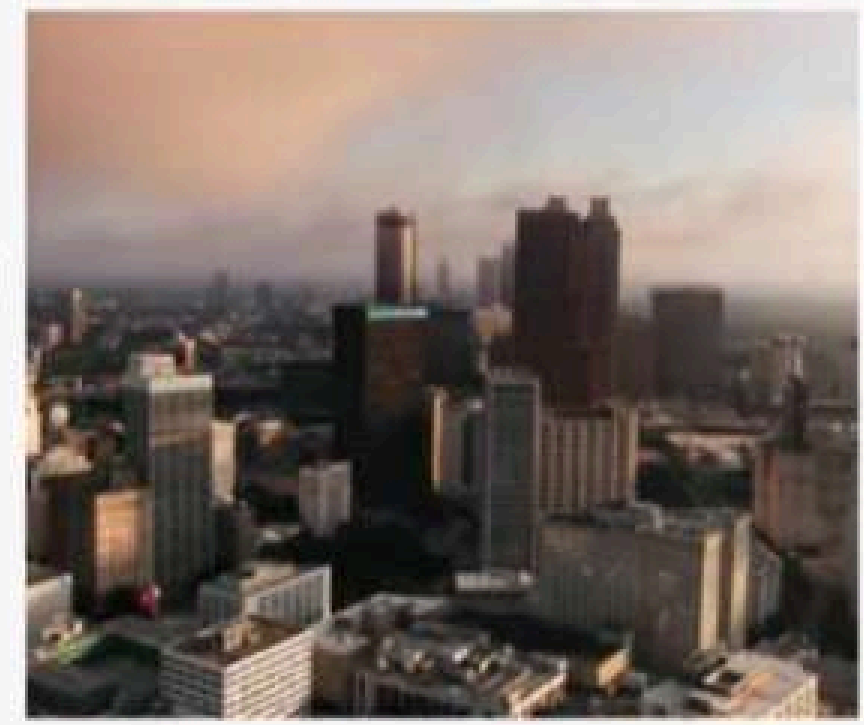
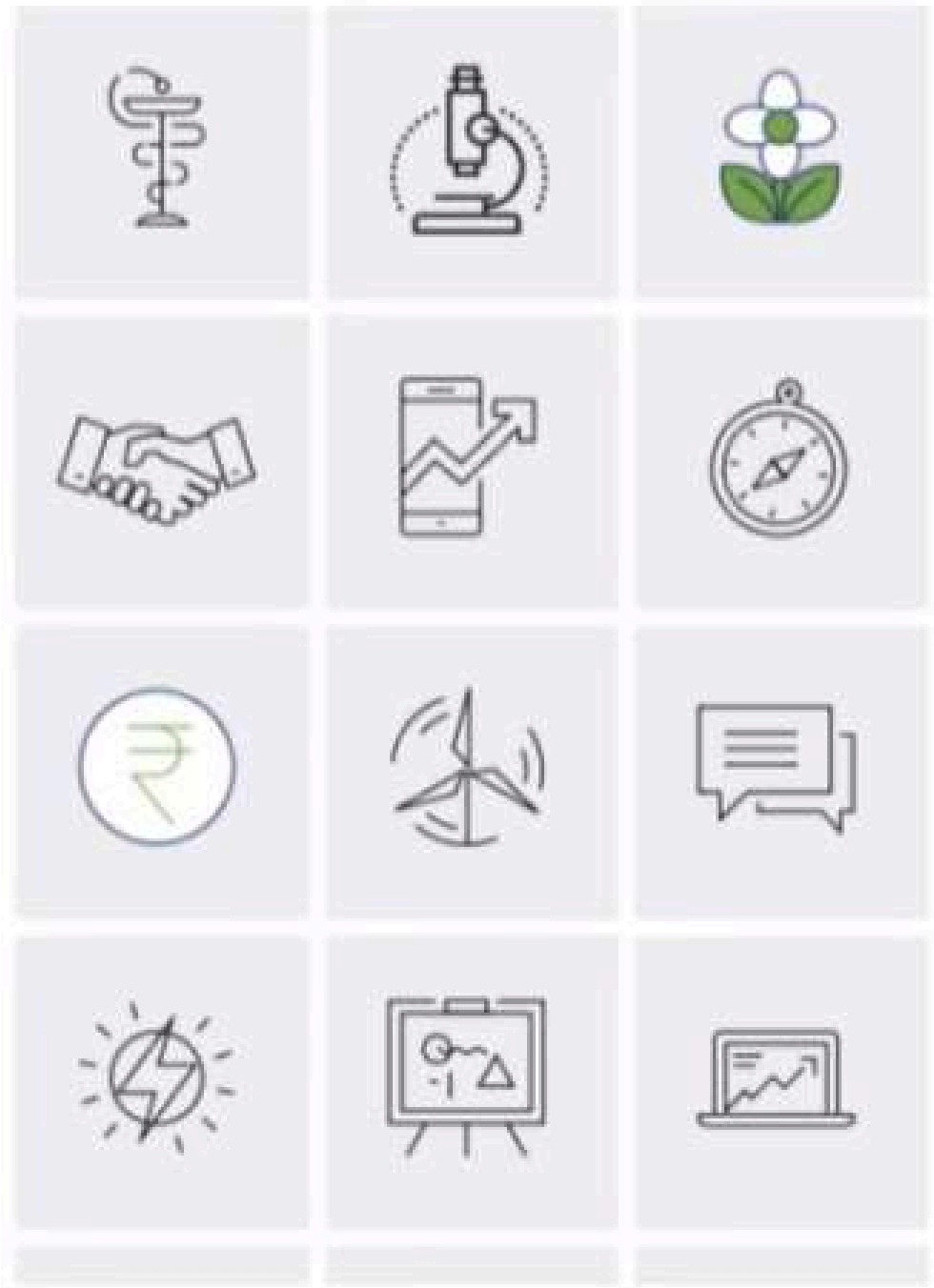
Political, inappropriate and discriminatory content will not be approved.



- Story
- Media
- Icons
- Music
- Style
- Format
- Transcript

Library Uploads Recent

Search millions of photos and videos



**Grow your brand and drive demand with video at scale**

- Preview
- 3s +
- Swap Design
- Shuffle Colors
- More options



- Preview
- 3s +
- Swap Design
- Shuffle Colors
- More options



# Research workflow

1

Identify research topic

2

Literature search

3

Managing research data  
and citation

4

Draft manuscript

5

Find journal for  
publication  
Register researcher  
identifications

6

Promotion and  
showcase research

7

Measure online  
visibility  
& impact of the  
research

Measure online  
visibility  
& impact of the  
research

# Altmetric - Best for Overall Visibility and Social Media Engagement

## Why:

Altmetric **provides a comprehensive view of how research is mentioned and shared across a variety of platforms, including news outlets, social media, blogs, and policy documents.**

It gives you a single score (Altmetric Attention Score) that reflects the reach of your research in the public domain.

## Best For:

Researchers looking to track the broader social and media impact of their work, including public and policy-level engagement.



## Strengths:

**Comprehensive tracking across diverse platforms, real-time monitoring,** and a simple attention score for quick insight.

Measure online  
visibility  
& impact of the  
research

# Dimensions.ai - Best for Citation and Academic Impact

## Why:

Dimensions.ai **provides detailed citation data and tracks how often and where your work is being cited within the academic community.** It also shows how your work fits into the broader research landscape by identifying related studies and researchers.

## Best For:

Researchers focusing on academic visibility and citations, especially if your work is heavily cited within the research community.

## Strengths:

Rich citation data, integration with grant data, and analysis of academic networks and collaborations.



Dimensions

A Digital Science Solution

# Google Scholar - Best for Citations and Author Tracking

## Why:

Google Scholar is one of the most widely used academic tools for citation tracking. **It automatically updates citation data, which is useful for tracking the academic impact of your work.**

## Best For:

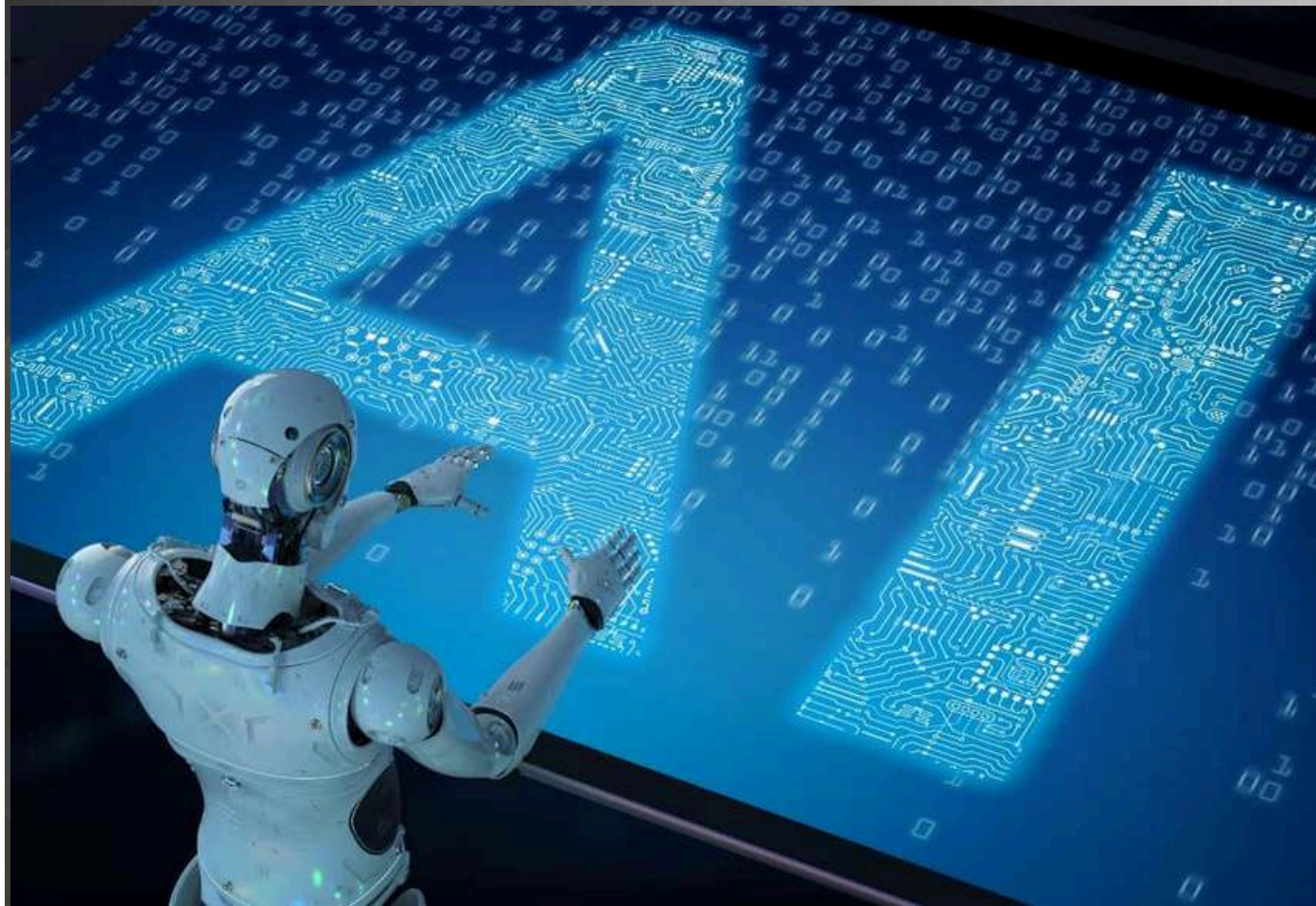
Researchers who want to track how often their papers are cited within the academic community.

## Strengths:

**Free to use, easy to set up, and provides citation count and h-index metrics, which are often used by institutions and funding bodies.**



# PART 2



1. Ethics and dilemmas and challenge in adopting AI.
2. Strategies to adopt AI in academic libraries

# Ethics and dilemmas and challenge in adopting AI

## KEY ETHICAL

### Data Privacy & Security

**Libraries handle sensitive user data**, including borrowing histories, search patterns, and research topics.

### Intellectual Freedom

**Libraries must uphold users' rights** to access diverse viewpoints without surveillance.

### Transparency & Explainability

**Users and librarians need to understand how AI systems make decisions.**

### Job Displacement & Professional Ethics

**AI automates tasks like cataloging and research assistance.**



# Ethics and dilemmas and challenge in adopting AI

## STRATEGIES TO ADDRESS ETHICAL

Adopt Ethical AI Frameworks

**Implement guidelines** for fairness, accountability, and transparency

Prioritize Privacy-by-Design

**Integrate privacy considerations during AI system development.**

Continuous Staff Training

**Equip library professionals with AI literacy and ethical awareness.**

Engage in Collaborative Governance

**Collaborate with academic institutions and IT experts** to co-develop responsible AI practices.

# Integration in Libraries: Strategic



# 1. Establishing a Dedicated AI Literacy Division

- Create a **specialized unit within the library** to lead AI literacy programs, ensuring librarians are equipped with the latest AI tools and methodologies.
- Train **AI-literate librarians** to guide users on ethical AI usage, digital transformation, and research efficiency.
- Develop **AI-driven user services**, such as intelligent search systems, virtual assistants, and personalized learning pathways.

## 2. Policy Development: AI Guidelines for Researchers

- Formulate a **comprehensive AI policy** to guide researchers on the responsible and ethical use of AI in academic work.
- Establish protocols for **AI-generated content citation, plagiarism detection, and bias mitigation** in research.
- Align the policy with **institutional, national, and global standards** on AI governance and academic integrity.

### 3. Research Grants for an AI Hub in Libraries

- Advocate for funding to establish an **AI Research Hub** within the library, focusing on AI applications in information science, digital curation, and research analytics.
- Facilitate **interdisciplinary collaborations** with faculties, research centers, and industry partners to explore AI-driven innovations.
- Utilize AI for **predictive analytics in library services**, optimizing resource allocation and enhancing user experience.

## 4. Micro-Credential Program: Digital Literacy & AI for Researchers

- Develop a **structured micro-credential course** to upskill researchers in AI-powered academic research, data analytics, and digital literacy.
- Offer hands-on training in **AI-enhanced citation management, literature review automation, and ethical AI usage.**
- Provide certification that **enhances researchers' credentials**, fostering AI competency in academia and industry.

# CONCLUSION

- AI tools are essential for researchers because they **significantly enhance efficiency, accuracy, and innovation in the research process.**
- These **tools can automate repetitive tasks such as data collection, cleaning, and analysis, freeing researchers to focus on higher-level insights and creative problem-solving.**
- AI enables advanced data analysis methods, such as predictive modeling and natural language processing, allowing researchers to uncover patterns and relationships that would be challenging to detect manually.