



AI Tools for Students

AI Study & Productivity Toolkit: Work Smarter, Not Harder

Dr. Hasibe Aysan

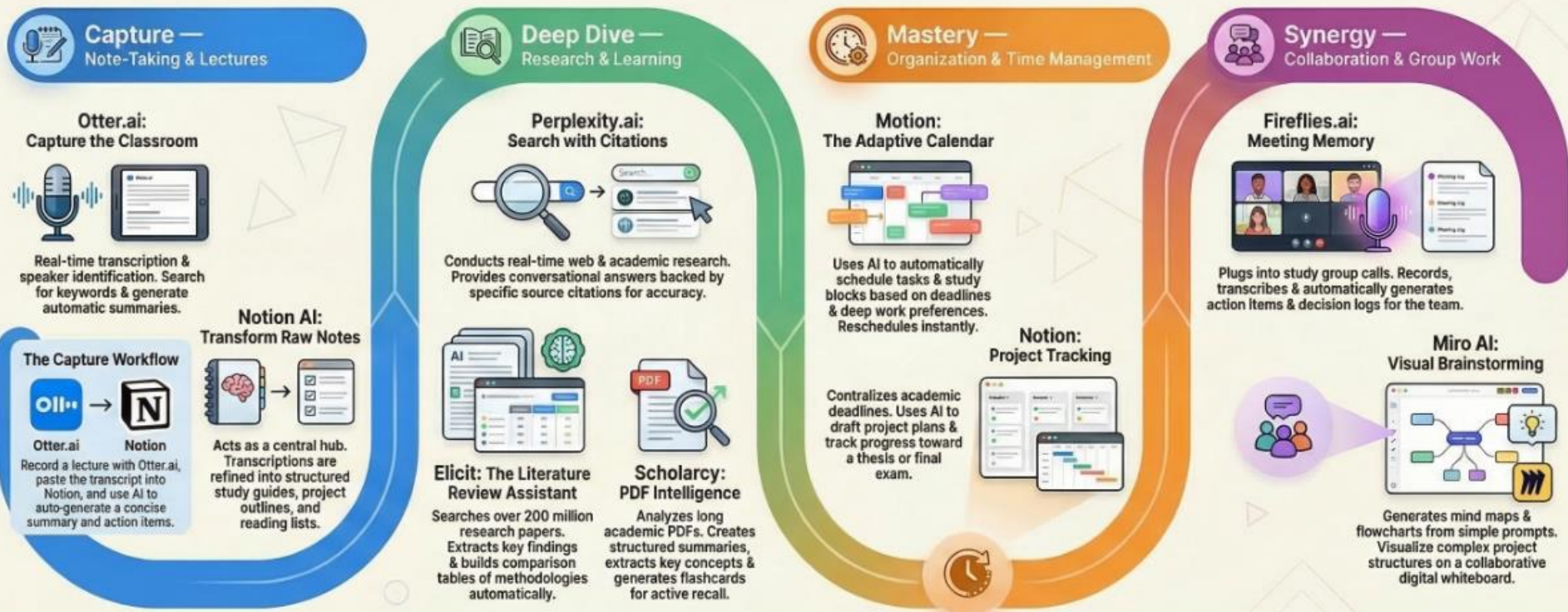
Ostim Technical University, Ankara, Türkiye

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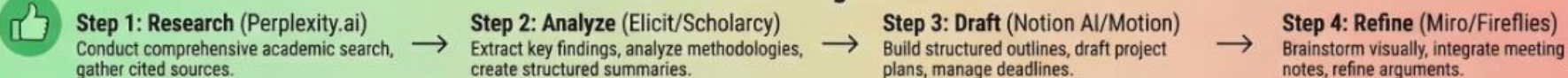
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The Student AI Ecosystem: Work Smarter, Not Harder



Section 6: The Integrated Workflow



NotebookLM

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AI Study & Productivity Toolkit

Work Smarter, Not Harder

"How many hours do you spend on tasks AI could do in minutes?"

Master AI tools for learning

Note-taking, research, writing — a practical toolkit for every phase of study.

Build efficient study systems

Combine AI tools into workflows that save hours per week and improve output quality.

Manage projects & deadlines

AI calendar and task management tools that adapt to your workload automatically.

Learn ethically with AI

Use AI to deepen your understanding — not to shortcut the learning process itself.

Session flow: Note-taking → Research → Writing → Organization → Collaboration → Ethics

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AI Note-Taking & Lecture Tools

Capture everything — review in minutes

Otter.ai

Automatic transcription & speaker identification

- Records and transcribes lectures in real time
- Identifies multiple speakers automatically
- Generates AI summaries with action items
- Search inside transcriptions by keyword
- Syncs with Zoom, Google Meet, Teams
- Free tier: 300 minutes/month

Notion AI

Smart note organization with AI built in

- AI writes, edits, and summarizes inside notes
- Ask questions about your notes: 'Summarize Week 3'
- Auto-generate study guides from lecture notes
- Organize projects, databases, and reading lists
- AI fills in templates and creates outlines
- Works across web, desktop, and mobile

Workflow tip: Use Otter.ai to capture lectures → paste transcript into Notion AI → auto-generate a study summary in seconds.

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Research & Learning Tools

From web search to academic paper analysis



Perplexity.ai

AI-powered web research with citations

- Real-time web search with source citations
- Academic mode for peer-reviewed papers
- Follow-up questions in conversational style
- Summarizes multiple sources in one response



Elicit

Research assistant for academic papers

- Search 200M+ research papers by concept
- Extract key findings automatically
- Compare methodologies across papers
- Build literature review tables in minutes



Scholarcy

PDF summarizer for academic papers

- Upload any PDF — get a structured summary
- Extracts key concepts, contributions, findings
- Creates flashcards from papers automatically
- Identifies and links all references

Research workflow: Perplexity → find relevant papers → Elicit → compare findings → Scholarcy → deep-read key papers → Notion AI → write up notes

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Organization & Time Management

AI that adapts to your schedule automatically



Motion / Reclaim.ai

AI calendar management — auto-schedules your tasks

- Automatically schedules tasks based on deadlines and energy
- Reschedules meetings and tasks when plans change
- Blocks deep work time so it doesn't get eaten by meetings
- Syncs with Google Calendar, Outlook, and Zoom



Notion for Project Management

All-in-one workspace for students and teams

- Kanban boards, timelines, and checklists in one tool
- AI writes project plans from a single prompt
- Group project wikis with shared editing
- Templates for semester planning, thesis tracking

Practical Student Scenarios

1. Writing a research paper:

Perplexity (topic) → Elicit (literature) → Scholarcy (deep-read) → Notion AI (outline + draft)

2. Preparing for exams:

Otter.ai (lecture notes) → Notion AI (study guide) → Scholarcy flashcards → self-quiz

3. Managing multiple deadlines:

Add all deadlines to Motion → let it auto-schedule study blocks → Notion board tracks progress

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Collaboration & Group Work

AI-powered tools for study groups and team projects



Fireflies.ai

AI meeting assistant for groups

- Records and transcribes group meetings
- Auto-generates action items and summaries
- Searchable meeting archive — find any decision
- Integrates with Zoom, Meet, Teams, Webex



Miro AI

Visual brainstorming and mind mapping

- AI generates mind maps from a topic or prompt
- Real-time collaborative whiteboard
- AI summarizes brainstorming sessions
- Diagram and flowchart generation built in



Notion (Team Spaces)

Shared project workspace

- Shared wikis and knowledge bases for groups
- AI writes meeting agendas, project briefs
- Assign tasks and track deadlines together
- Comments and version history for drafts

Group project workflow

Kick-off meeting → Fireflies records & creates action items → Miro AI builds a project mind map → Notion tracks progress → Fireflies records every subsequent meeting automatically.

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Academic Integrity & Ethical AI Use

The golden rule: use AI to LEARN, not to CHEAT

✓ Ethical AI Use

- Use AI to understand difficult concepts
- Get feedback on drafts you wrote yourself
- Summarize sources, then read the original
- Use AI to brainstorm — then develop ideas yourself
- Disclose AI assistance where required

✗ Academic Misconduct

- Submitting AI-generated text as your own work
- Using AI to answer exam questions
- Bypassing the learning process entirely
- Not disclosing AI use when policies require it
- Fabricating citations from AI output

University policies vary — always check your institution's AI use policy before each assignment. When in doubt, ask your instructor.

AI is a productivity multiplier — but only if you're the one doing the thinking.

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Your AI Study System

Start today — build your toolkit one tool at a time

Step 1

Otter.ai

Install the app. Record your next lecture. Review the auto-summary after class.

Step 2

Perplexity.ai

Use it for your next research topic instead of a plain Google search. Check the cited sources.

Step 3

Notion AI

Create a workspace for your current course. Paste your lecture notes and ask AI to summarize.

Step 4

Elicit

Find 5 papers on your next essay topic. Use it to build a comparison table automatically.

Step 5

Motion or Notion

Add all your upcoming deadlines. Let the AI schedule your study blocks for the next 2 weeks.

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Claude

AI Assistant

History · Capabilities · Use Cases · Limitations

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What is Claude?

A large language model built for safety and helpfulness

Definition

A large language model (LLM) trained to understand and generate human language — it reads, writes, reasons, and codes.

Made by Anthropic

Founded 2021 by former OpenAI researchers Dario & Daniela Amodei. Focused on AI safety research.

Core Values (HHH)

Helpful · Harmless · Honest
Trained with a written 'constitution' — not just human feedback.

How it generates text

Claude processes your input as 'tokens' and predicts the most likely next word — one at a time. It can handle up to 200,000 tokens (≈ 150,000 words) in a single conversation.

Constitutional AI

Unlike models trained only on human feedback, Claude is also trained with a set of written principles. It critiques and revises its own outputs during training — which is why it's consistent and transparent.

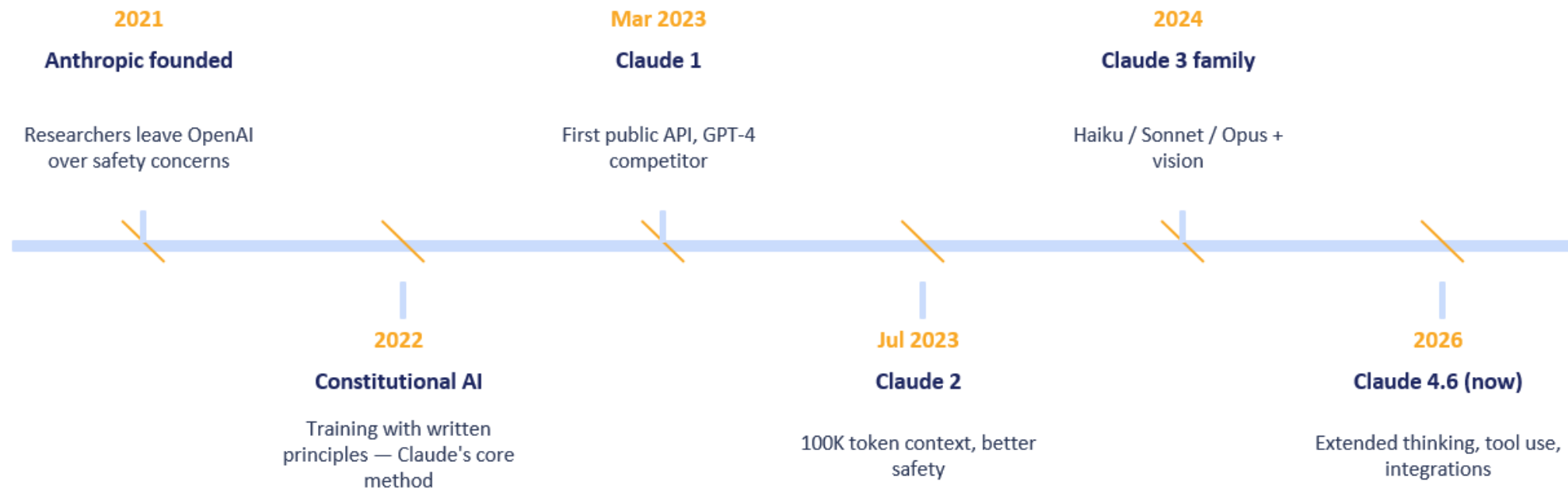
The result: a model that explains its reasoning, pushes back on harmful requests, and behaves reliably across topics.

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Claude's History

From research breakthrough to global product



Key Innovation: Constitutional AI — Claude is trained with written ethical principles, not just human ratings. This makes its behavior consistent, transparent, and predictable.

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What Can Claude Do?

Core capabilities across writing, reasoning, code, and more

Writing & Language

Essays, reports, summaries, emails, translations, style adaptation. Works fluently in dozens of languages.

Reading & Analysis

Upload a 100-page PDF and ask any question. Claude finds, synthesizes, and explains relevant content.

Reasoning & Math

Step-by-step problem solving, logic, statistics, word problems — from high school to graduate level.

Coding

Write, debug, and explain code in Python, JavaScript, SQL, Java, C++, and more. Also refactors and reviews.

Research Support

Break down complex topics, compare perspectives, synthesize arguments from multiple sources.

Agentic Tasks

With tools enabled: web search, file management, calendar, email — Claude can complete multi-step workflows.

Context window: up to 200,000 tokens (~150,000 words) — an entire novel in a single conversation.

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Real-World Use Cases

How students, researchers, and professionals use Claude today

For Students

- Explain complex topics ('like I'm 15')
- Get feedback on essays and drafts
- Create quizzes for exam prep
- Language learning & corrections
- Break down research papers

For Researchers

- Summarize 50-page papers in minutes
- Draft methodology / literature sections
- Analyze & interpret data tables
- Compare theoretical perspectives
- Find gaps in existing research

For Professionals

- Business emails & proposals
- Contract review in plain language
- Strategy & SWOT analysis
- Technical documentation
- Client communication drafts

Pro Tip: The more context you give Claude, the better the output. Specify your role, the audience, and what you've already tried.

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How to Access Claude

Free tier, paid plans, API, and integrations

Claude.ai (Web & App)

Free / Pro / Team

Free tier available

Sign up at claude.ai. Free access to Sonnet with limits. Pro plan unlocks Opus, more messages, and Projects.

Anthropic API

claude-sonnet-4-6

For developers

Build apps powered by Claude. Access Haiku (fast), Sonnet, Opus. Pay-per-token pricing with full tool access.

Claude Code

Developer

Terminal tool

Agentic coding assistant. Claude can run code, manage files, and work as a full developer inside your project.

Integrations (2025-26)

Beta

Embedded in your workflow

Claude in Chrome, Excel, PowerPoint, Gmail, Google Calendar. Cowork for desktop task automation.

Current models (2026): Haiku 4.5 (fast) · Sonnet 4.6 (recommended) · Opus 4.6 (most powerful)

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What Claude Cannot Do

Hard limits, technical weaknesses, and ethical boundaries

Hard Limits (by design)

- Weapons of mass destruction (bio, chem, nuclear)
- Sexual content involving minors — zero exceptions
- Functional malware or cyberweapons
- Undermining AI oversight or democratic processes

These are deliberate — Claude holds these lines even when presented with clever arguments for exceptions.

Technical Limitations

Hallucination

Can state false facts confidently — especially for citations and recent events. Always verify.

Knowledge cutoff

Without search tools, knowledge ends ~Aug 2025. It can't browse the internet by default.

No persistent memory

Each session starts fresh. It doesn't remember you unless explicitly told.

No image generation

Can analyze images, but cannot create them.

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Getting the Best Results

Practical prompt engineering for students

01 Be specific

Instead of 'explain AI', try: 'Explain transformer attention for a CS undergrad who knows Python but not ML.'

02 Give context

Tell Claude who you are, what the output is for, and who will read it. More context = better output.

03 Iterate

Don't expect perfection on the first try. Ask it to 'make it shorter', 'add examples', 'change tone'. It remembers the conversation.

04 Break it down

For complex tasks, ask Claude to tackle one piece at a time — outline first, then each section separately.

Prompt pattern: "Act as a [role]. [Task]. Output should be [format]. Audience: [who]. Tone: [formal/casual]."

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Key Takeaways

What to remember about Claude

Claude is a safety-first AI

Built with Constitutional AI — it reasons about ethics, not just follows rules.

Multimodal & capable

Reads text, images, code. Context window of 200K tokens means it can handle very long documents.

Verify important facts

Claude can hallucinate. Treat it as a brilliant first draft, not a final source.

Prompt quality matters

Specific, contextual prompts get dramatically better results than vague ones.

Use it ethically

AI assists your thinking — don't outsource your judgment. Always cite AI use where required.

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