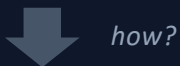


MODULE 2

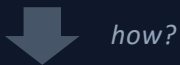
Portfolio Project Kickoff

**Goal: Become a job-
ready AI Engineer in
record time**

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Demonstrate that you have the skills companies are looking for



Build, deploy and showcase portfolio projects



What is a good portfolio project?

1. Projects that demonstrate mastery of a lot of skills

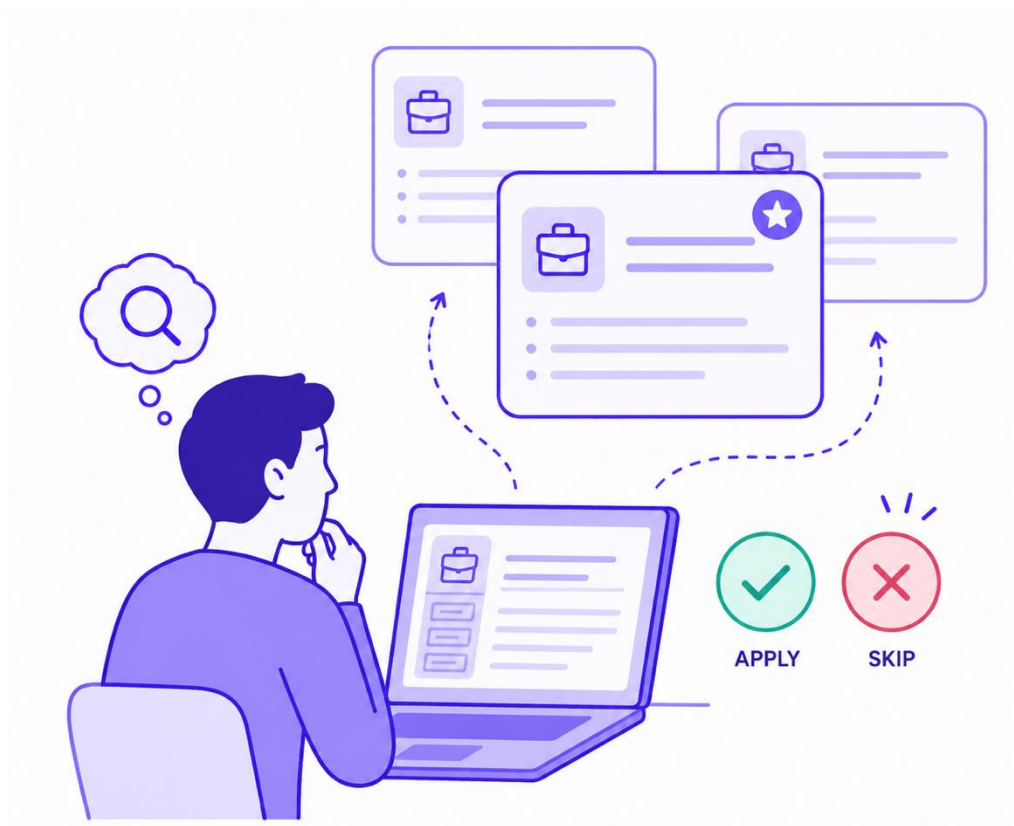
2. Apps that are similar to the ones companies are building

which projects to build, exactly?

1	Python	88%
2	LLM	57%
3	RAG	45%
4	AWS	40%
5	Prompt Engineering	36%

Top 5 Categories

- Workflow Automation
- Document Processing
- Knowledge Retrieval
- Decision Support
- Content Generation



Weekly AI Engineering Job Agent

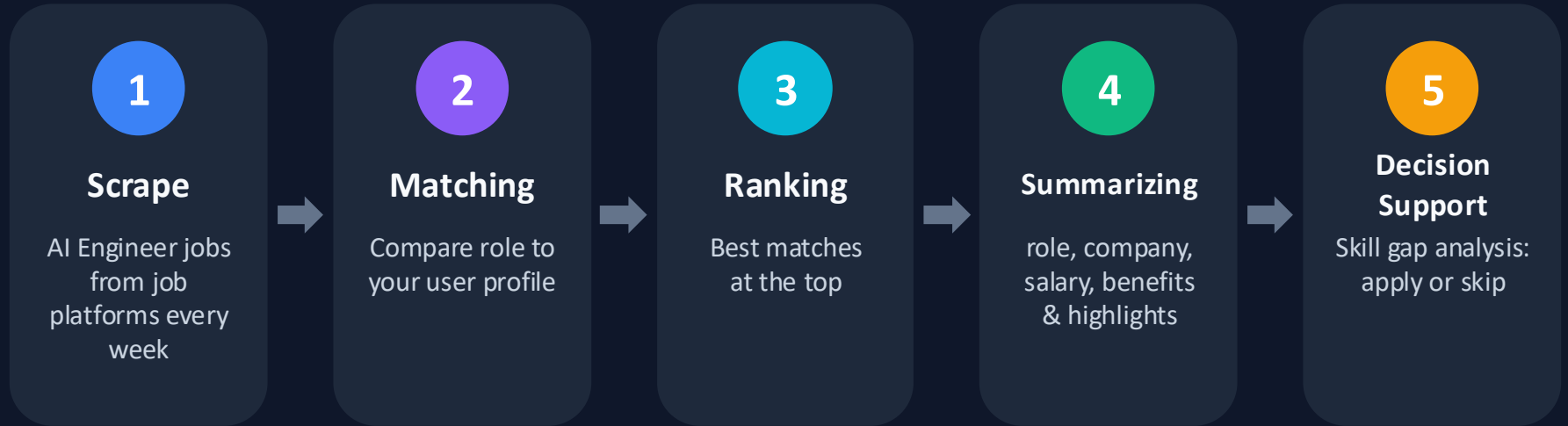
Skills companies are hiring for

1	Python	✓	83%
2	RAG		61%
3	Prompt Engineering	✓	44%
4	AWS	✓	44%
5	LLMs	✓	42%
6	LangChain		34%
7	Azure		27%
8	Docker	✓	24%
9	Machine Learning		24%
10	GCP (Google Cloud Platform)		24%
11	AI Agents	✓	24%
12	Vector Databases		22%

Categories of Apps companies are building

	1. Workflow Automation	✓
	2. Document Processing	✓
	3. Knowledge Retrieval	
	4. Decision Support	✓
	5. Content Generation	

AI Engineering Job Agent





And that's it!



Skills Demonstrated



AI / LLMs



Python Development



Data Collection



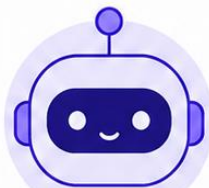
Data Analysis



Cloud Deployment



Automation



AI Engineering
Job Agent



Built an app like
companies
actually build



Real problems.
Real impact.



3 Ways to Move Forward

You have three options as we advance:

1

Passive Consumption

Watch along to get an overview of AI Engineering fundamentals.

✗ Not recommended

2

Build Alongside Me

Build your own version of the Job Agent step-by-step with me.

✓ Better

3

Your Very Own Portfolio Project

Apply the concepts to build a portfolio project that's uniquely yours.

★ BEST

BUILD IT. SHIP IT.

REAL PROJECTS. **REAL IMPACT.**



BUILD SOLUTIONS
TO REAL PROBLEMS



DEPLOY YOUR IDEAS
MAKE THEM REAL



STAND OUT
SHOW WHAT YOU CAN DO



I BUILD.
I SHIP.
I GROW.

YOU DON'T NEED
A PERFECT RESUME.

YOU NEED
PROOF.



REAL WORLD
REAL IMPACT



RECRUITERS REMEMBER
BUILDERS.

PORTFOLIO



OPPORTUNITIES

3 Ways to Move Forward

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Anatomy of a Workflow Portfolio Project

1

Trigger + Input

What kicks off the workflow and which input is processed?

EXAMPLES

- Trigger:
 - Cron Job
 - Receiving an eMail
 - Calendar Event
 - Telegram Bot
- Input
 - Web Scrape
 - RSS feeds
 - Fetch data from API
 - Files

2

LLM Processing Steps

How the model processes the input

EXAMPLES

- Classification
- Summarization
- Filtering
- Named Entity Recognition / Extraction
- Matching
- Ranking
- Scoring
- Comparing

3

Output / Action

What the workflow delivers

EXAMPLES

- Email
- Telegram message
- SMS
- HTML Report
- Markdown File
- PDF Report
- Create File
- Reply to mail

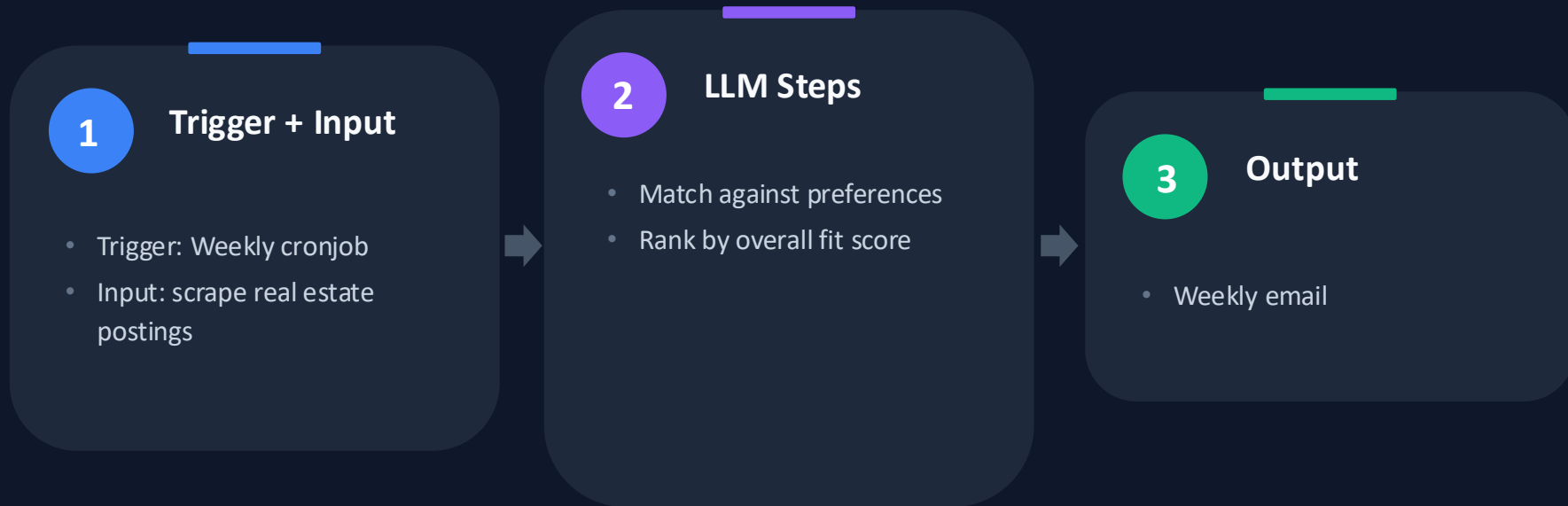
AI Engineer Job Agent



AI Engineering News digest



Find your dream home



Hacker News digest



Research Paper digest



New popular AI Engineer Repositories



Youtube Channel Summaries



Sophisticated Ideas

Telegram + API

Next Level

- Telegram Article Summarizer
- Recipe Generator from Fridge

Email + Calendar

Advanced

- Email Invoice Classification
- Email Phishing Detector
- Important Event SMS

Your Turn



Write down your project idea.

BUILD IT. SHIP IT.

REAL PROJECTS. **REAL IMPACT.**



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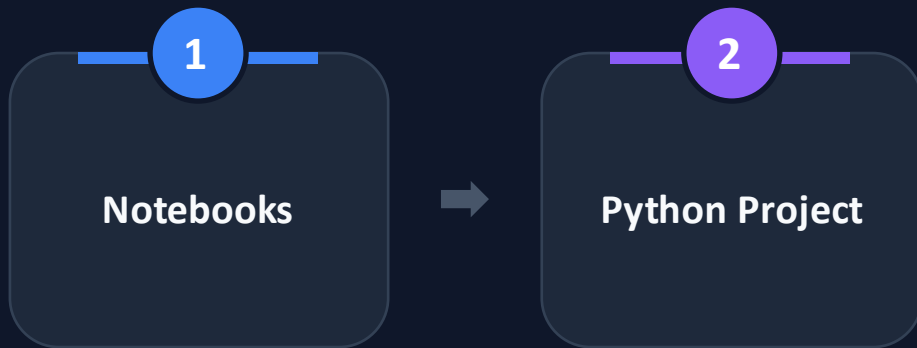
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OPPORTUNITIES

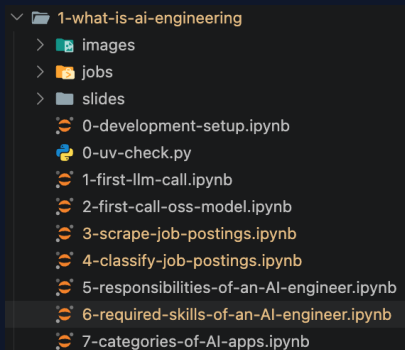
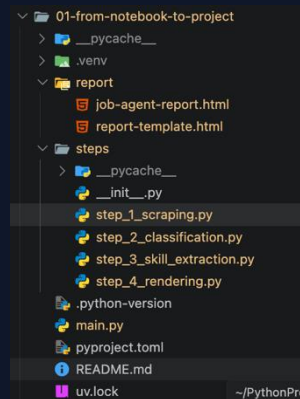
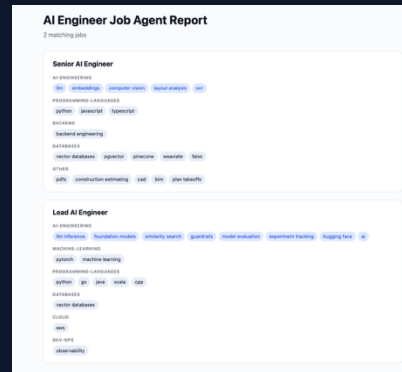
From notebook cells to a Python project



From notebook to project — Workflow



From notebook cells to a Python project





Your Turn.

Create your first AI project.

Project Extensions

1

Extensions

- **Show more information in the HTML**
 - Summary of the job posting
 - Summary of the company
 - Salary

2

Matching

- **User profile**
 - Skills
 - Preferences: remote / hybrid, salary range
- **Ranked HTML output**
 - Best matches shown at the top
 - Matching skills highlighted

3

Decision support

- **Should I apply?**
 - apply / skip
- **If requirements aren't met**
 - Suggest the next learning steps
 - Close the skill gap before applying

Extended Workflow — 6 Steps





Your Turn.

Extend your AI project