



# GitHub Copilot

Mastering GitHub Copilot

From code completions to custom AI agents

DEC 11, 2025



# If you want to follow along...

<https://github.com/henryhabib/githubcopilot20251211>



# Hi! I'm Henry!



I help companies and people work faster with technology

I create and deliver courses and presentations on automation, no-code, Gen AI, AI agents, and other work productivity topics

I run **The Intelligent Worker**, a newsletter with weekly news and tips on all things AI and work productivity

*Fun fact: I went on a traveling spree last year, visiting over 18 countries over 4 continents! This year, I've been to 0!*

Principal at Mgmt.  
Consulting firm

400K+ students  
20 bestsellers courses  
60+ live trainings

80K subscribers  
100+ partnerships  
2 Amazon new bestseller



# AGENDA

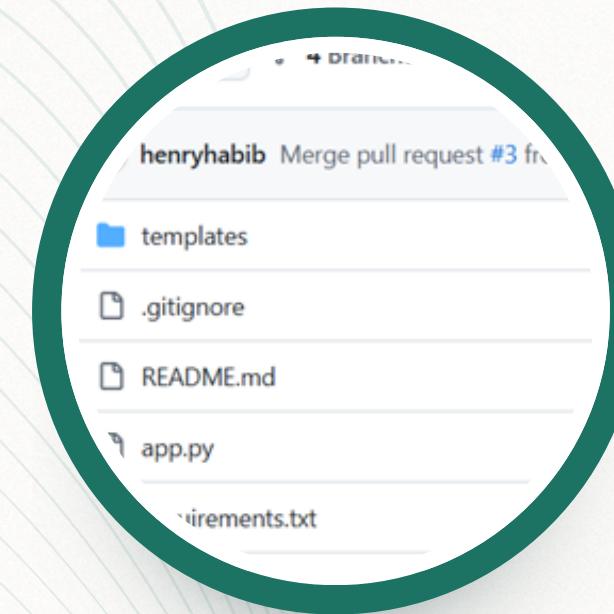
- ▶ GH Copilot basics **01**
- ▶ Tips on using GH Copilot **02**
- ▶ Demos of top features **03**
- ▶ Q&A **04**

Where we will spend  
most of our time

# WHAT IS GITHUB COPILOT?



**Generative AI  
assistant...**



**... that is context-  
aware to your  
codebase ...**



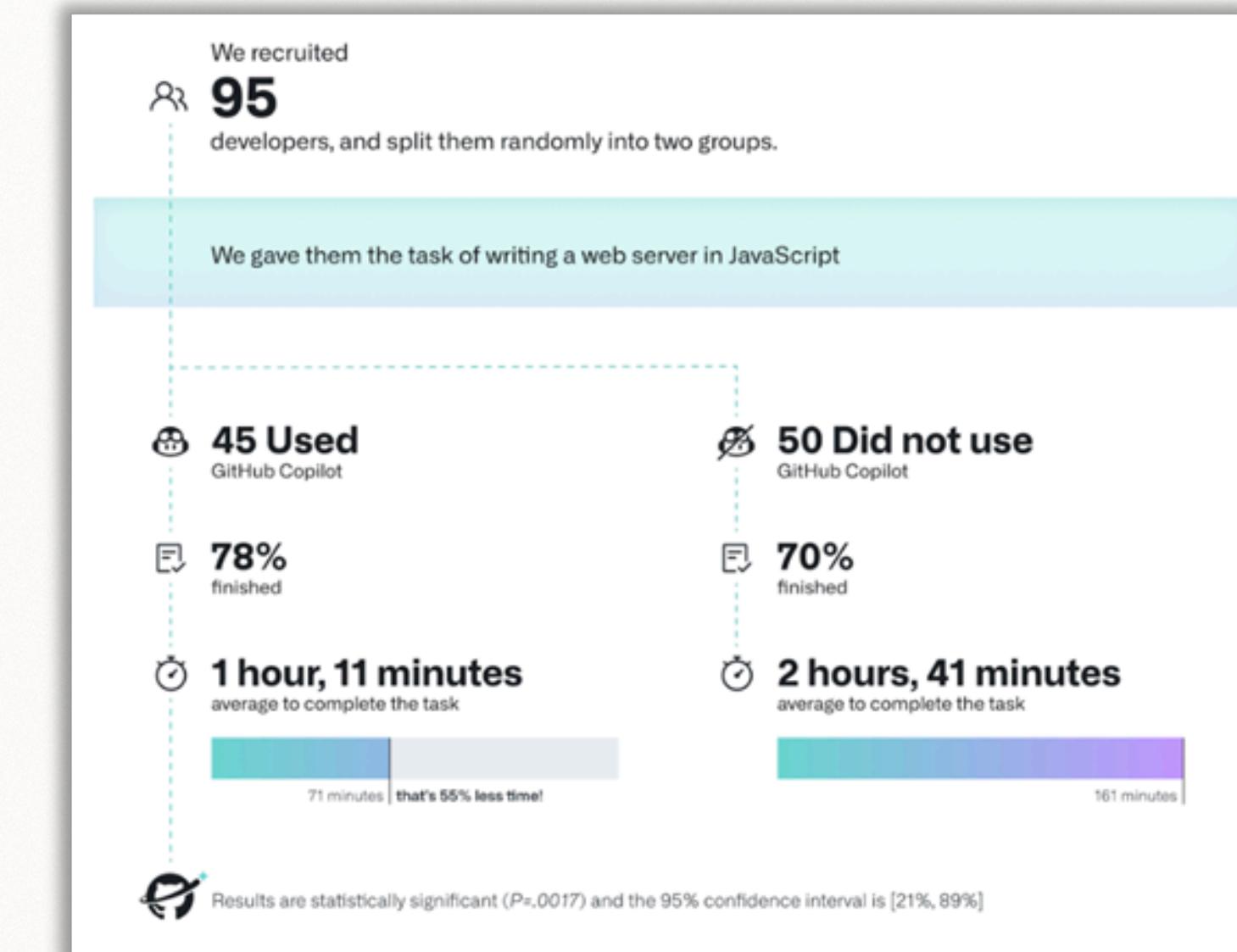
**... and is available  
and take actions  
where you work  
(your IDE)**



**... and is optimized  
for common  
developer use-  
cases and  
workflows**

# WHY USE GITHUB COPILOT?

It makes you more productive



# WHY USE GITHUB COPILOT?

It makes you  
happier

## Satisfaction and Well-being\*



# WHY USE GITHUB COPILOT?

It keeps you in the flow

## Efficiency and Flow\*



# Common Objections



```
role_id'      => $role_details['id'],
'resource_id'  => $resource_details['id'],
);
if ( !rule_exists( $resource_details['id'], $role_id ) || $details['access'] == false ) {
    Remove the rule as there is currently no access
    $details['access'] = !$access;
    $this->_sql->delete( 'acl_rules', $details );
} else {
    // Update the rule with the new access value
    $this->_sql->update( 'acl_rules', array( 'access' => $access ), array( 'role_id' => $role_id, 'resource_id' => $resource_id ) );
}
foreach( $this->rules as $key=>$rule ) {
    if ( $details['role_id'] == $rule['role_id'] ) {
        if ( $details['access'] == false ) {
            unset( $this->rules[ $key ] );
        } else {
            $this->rules[ $key ]['access'] = $access;
        }
    }
}
```



**It's a big security, IP, and data leakage risk**

**It's unreliable, wrong, and hallucinates**

**It produces unmaintainable code**

**I like coding myself, it's more fun**

# WE KNOW THAT GITHUB COPILOT ENABLES YOU TO WORK FASTER... BUT LEVERAGING IT TO ITS FULLEST IS DIFFICULT...



**Know how to  
work with  
Generative AI**



**Know GitHub  
Copilot's  
features**



**Know when to  
use and when  
not use it**

# TIP #1

2

Using Gen AI at work is  
an **iterative process** –  
you must “co-create”  
with Gen AI.



## TIP #2

Become an AI-first worker:  
always start any task with  
**“How do I get AI to help me  
go from 0 to X%”**



# TIP #3

Gen AI does not produce your final work product for you - **it gets you to ~80%** but you still need to finish and check the work



# TIP #4

Prompt engineering  
is a skill - **writing**  
**good prompts** leads  
to better experiences  
with Gen AI



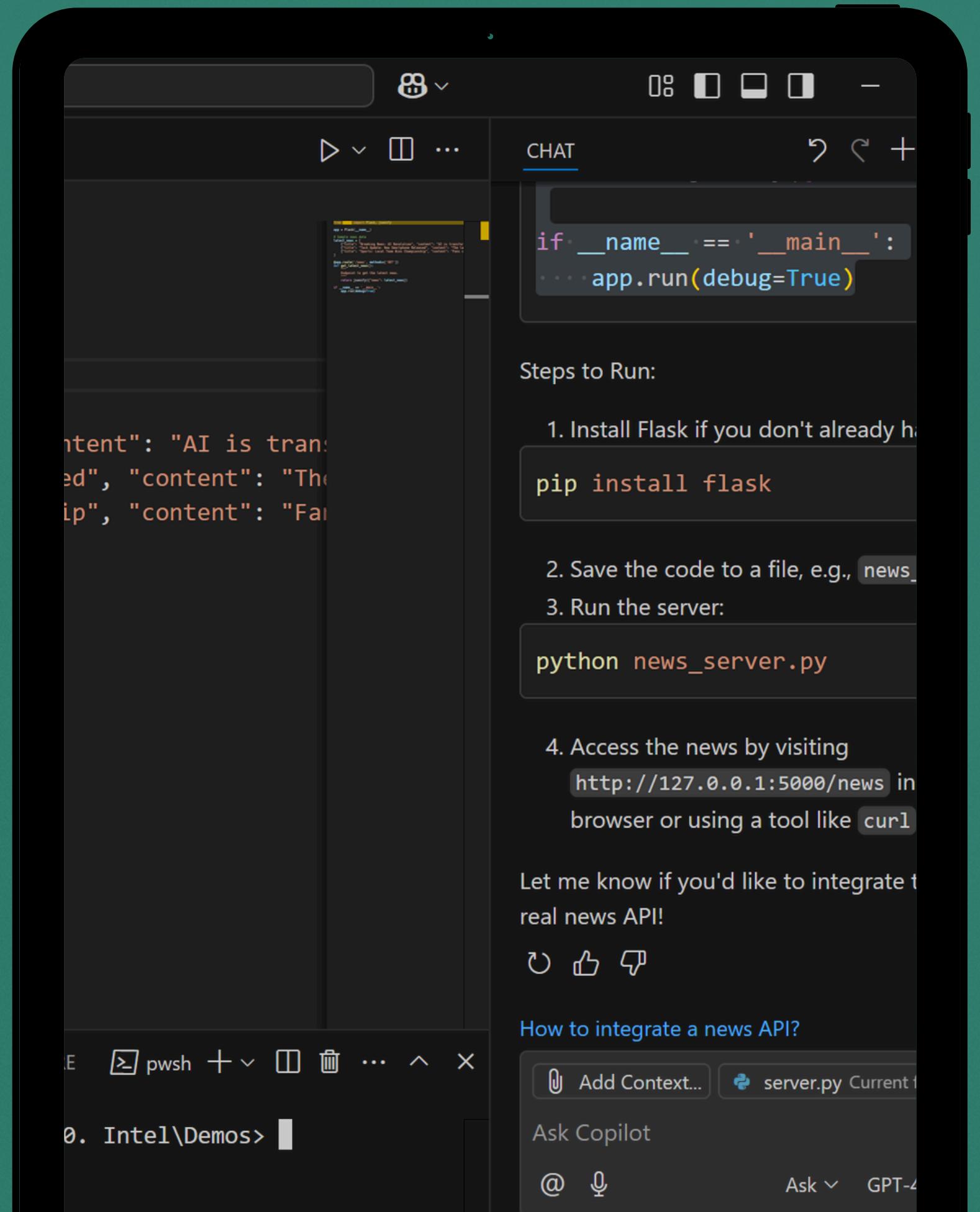
# TIP #5

Gen AI gets a little better every day, gets significantly better every quarter, and **gets astonishingly better every year** - it's hard to keep up



# Demos of certain features and use-cases in GitHub Copilot

1. AI code completion
2. Inline code actions
3. Code reviews and PRs
4. Agent mode
5. GitHub Copilot Agent
6. MCPs
7. Creating custom agents

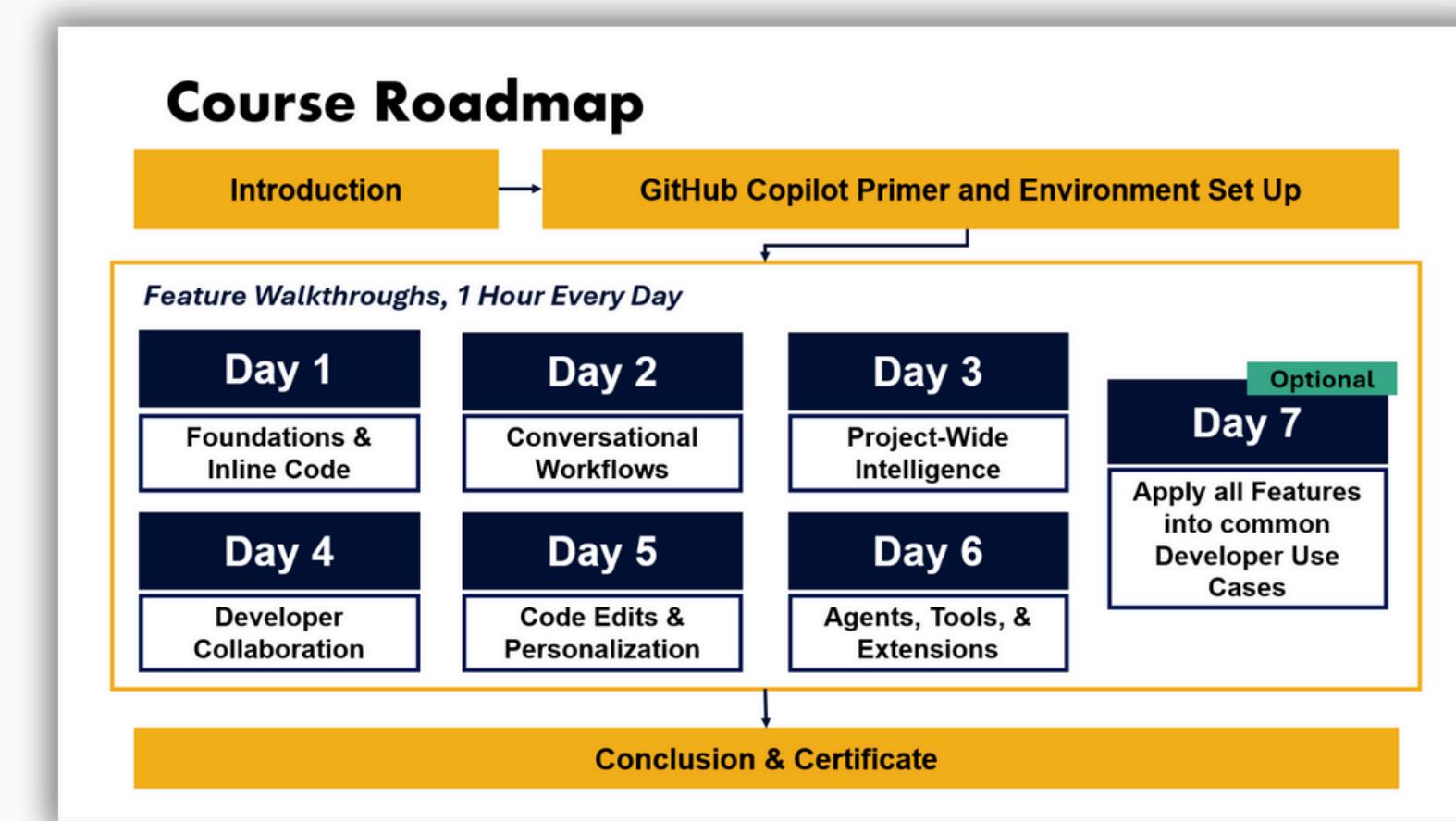
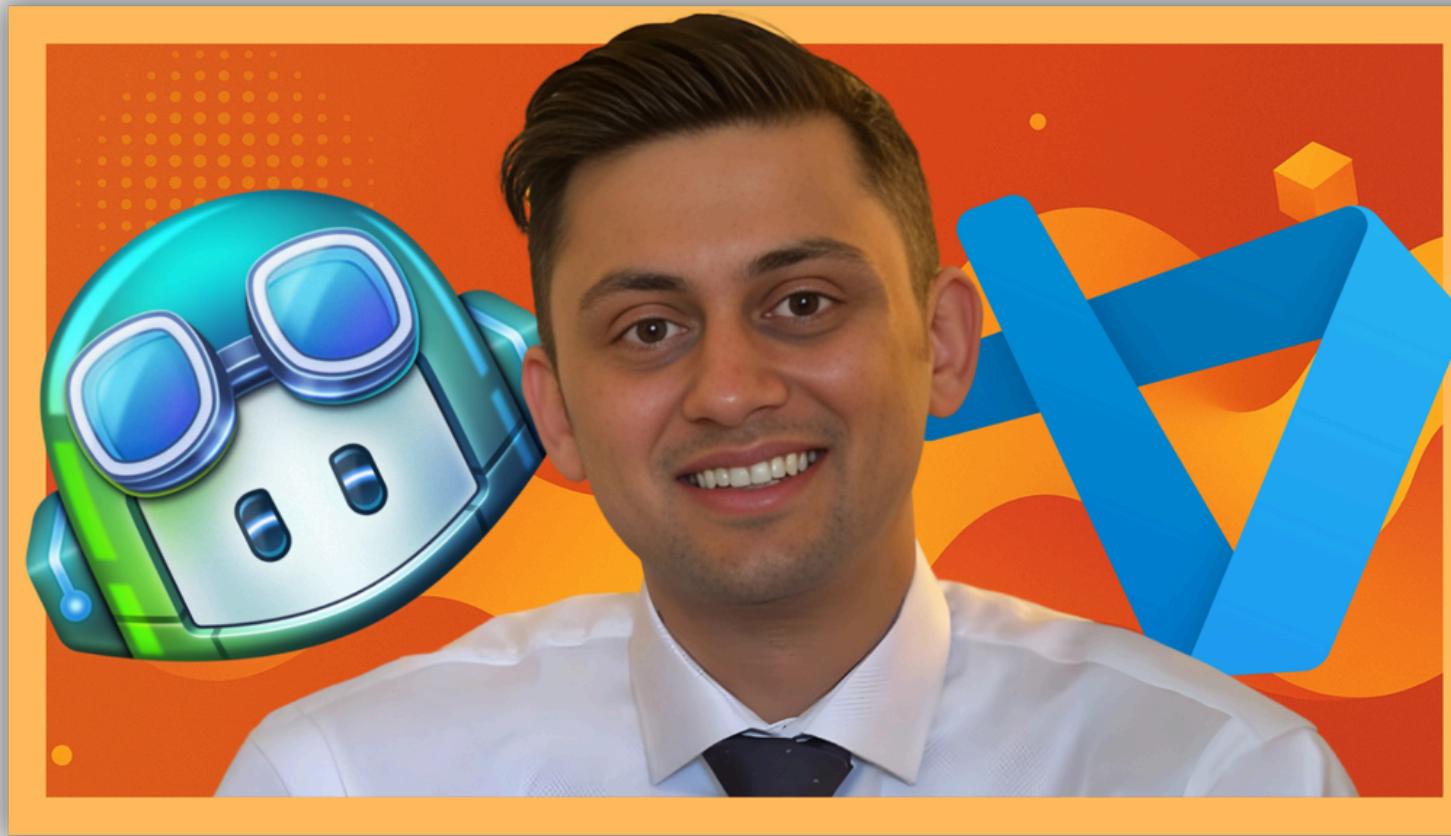


# There are more things to learn...

- AI code completion
- Inline code actions
- Multi environment support
- Copilot “Ask Mode”
- Copilot chat
- Slash command interface
- Chat context anchors
- Model selection
- Semantic code searching
- Next edit suggestions
- Copilot CLI
- Copilot chat in GitHub
- AI-assisted code reviews
- PR summaries
- Copilot workspaces
- Copilot knowledge bases
- Rich context
- GitHub PR edits
- Copilot edits
- Copilot vision
- Custom instructions / prompt files
- Copilot agent mode
- Copilot extenions and tools
- MCP servers
- ...



# 7 Days of GitHub Copilot: GitHub Copilot Masterclass



## 7 Days of GitHub Copilot GitHub Copilot Masterclass

AVAILABLE NOW

- *Master GitHub Copilot in 7 days for one hour a day*
- *7 hours on-demand video*
- *27 downloadable resources, shortcuts, and cheat sheets*
- *Certificate of completion*
- *Q&A and instructor support*

### What you will learn:

- Master all GitHub Copilot features
- Integrate GitHub Copilot into your day-to-day (know when to use it and when not to use it)
- Improve your productivity and happiness as a developer
- Meant for professional developers and their use-cases

**How to access:** Search for “**7 Days of GitHub Copilot**” or go to <https://www.udemy.com/course/github-copilot-for-professionals/>



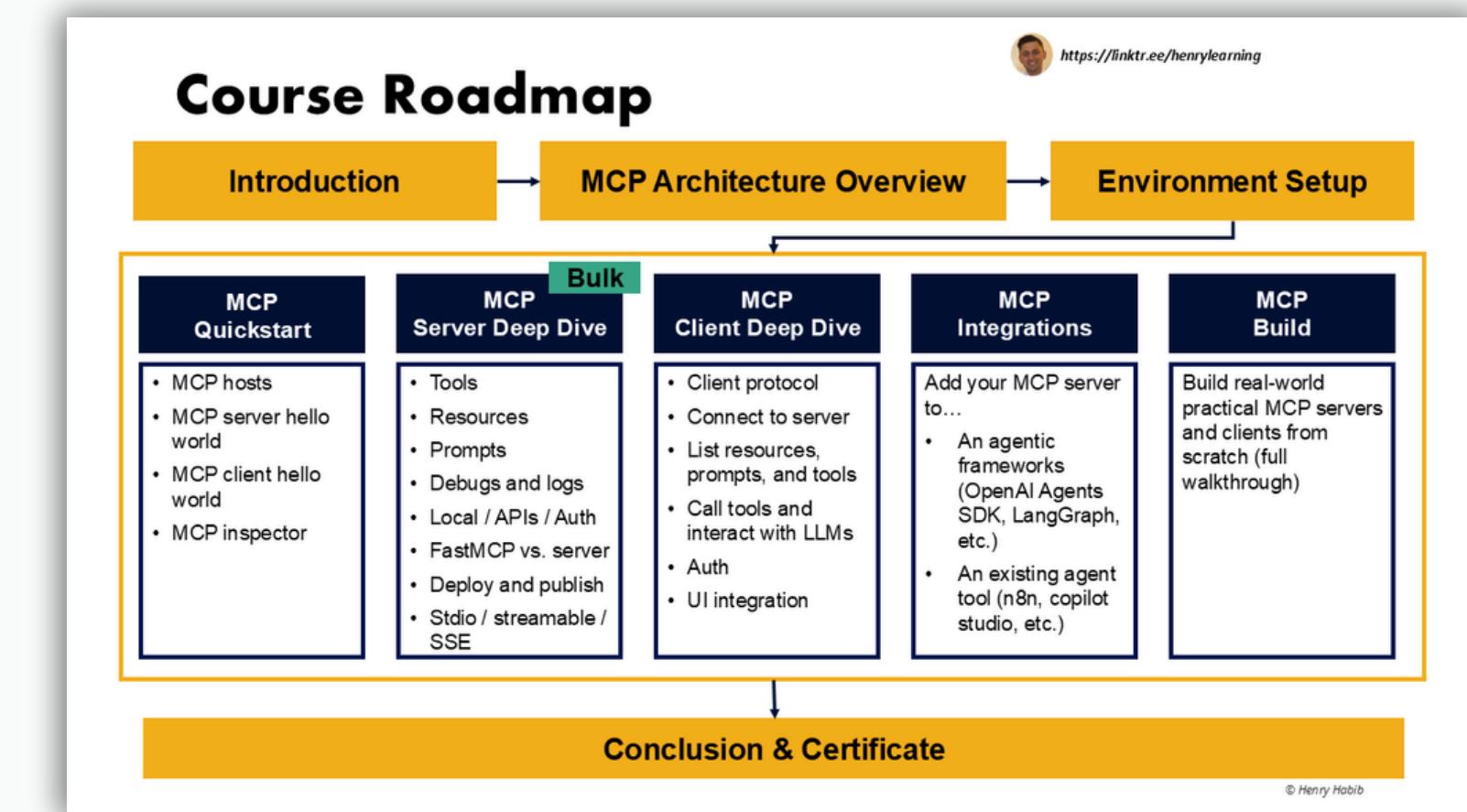
# MCP Masterclass: Complete Guide to MCP in Python



**MCP Masterclass**  
**Complete Guide to MCP in Python**

AVAILABLE NOW

- Build your own MCP servers
- 8 hours on-demand video
- 51 downloadable resources, shortcuts, and cheat sheets
- Certificate of completion
- Q&A and instructor support



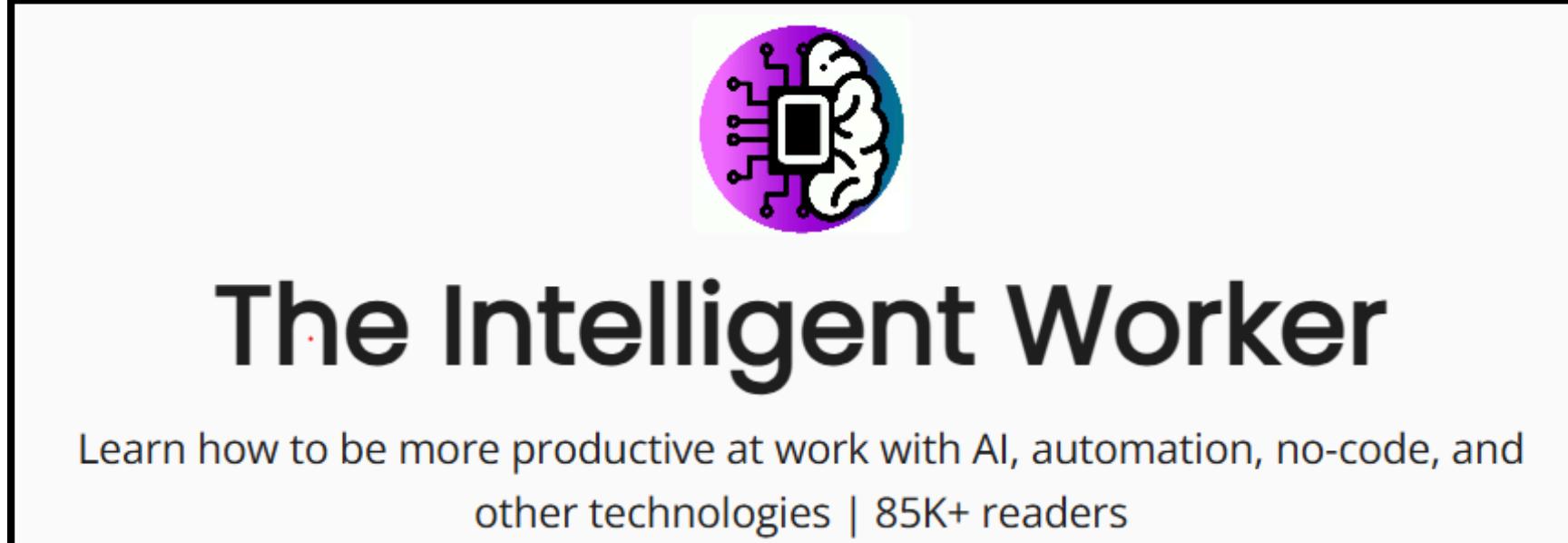
## What you will learn:

- Master all MCP features
- Build 4+ MCP servers and clients
- Integrate MCP servers into clients
- Meant for professional developers and their use-cases

**How to access:** Go to <https://www.udemy.com/course/github-copilot-for-professionals/>

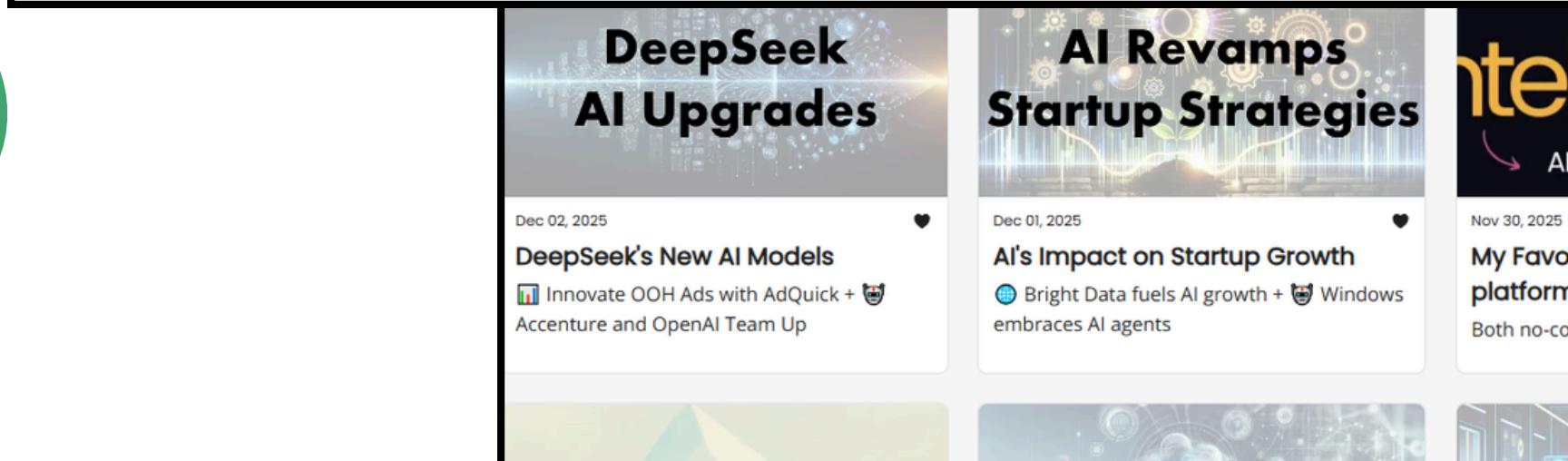
# Keep in touch with me and join my newsletter





The Intelligent Worker

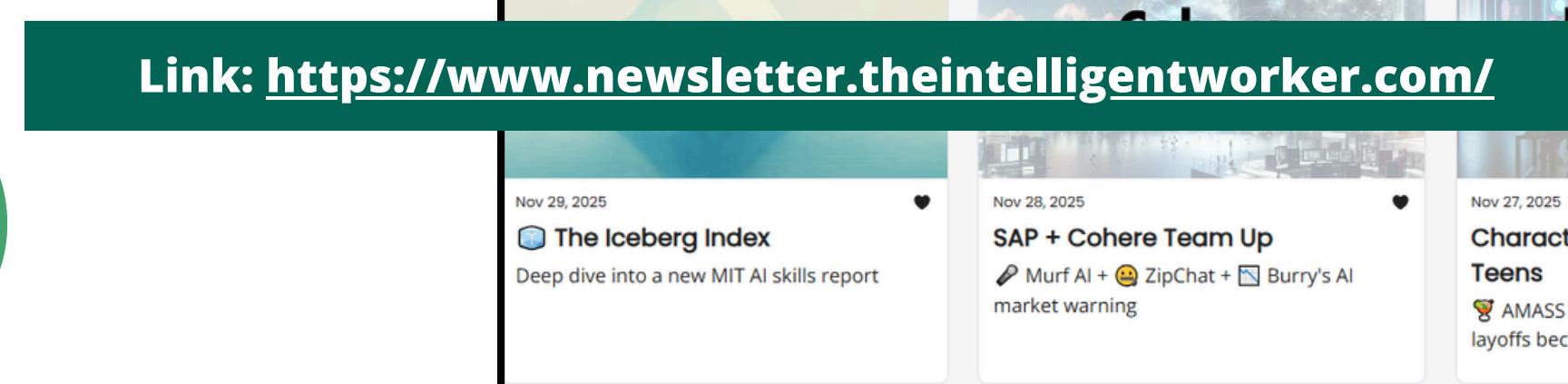
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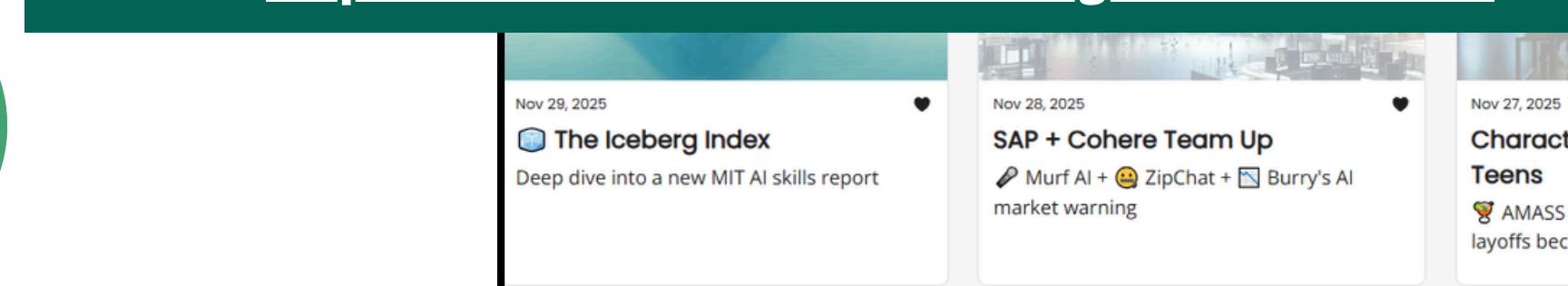
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Both no-code and code!



**Link:** <https://www.newsletter.theintelligentworker.com/>



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# QUESTIONS?

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ASK ME ANYTHING