



GitHub Copilot agent mode

Flying with a GenAI skeptic convert

Marek Grzenkowicz, Lead IT Expert

Roche at a glance

Who we are and what we do



129 years

founded in Basel in 1896



**A leader in
healthcare R&D**

with CHF 13 billion invested in
2024



**3 Nobel prizes and
44 Prix Galien**

since 1974



CHF 60.5 billion*

in Roche Group sales in 2024



**44 Roche medicines
& >100 diagnostics****

on the WHO List of
Essential Medicines & Tests



>100,000

dedicated employees
worldwide



~26 million people

treated with our medicines
in 2024



30 billion tests

conducted with our
Diagnostics products in 2024

*Unless otherwise stated, all growth rates and comparisons to the previous year are at constant exchange rates (CER; average rates 2024) and all total figures quoted are reported in CHF.

** Medicines and tests that have either been developed or acquired by Roche

Roche Informatics Poland

Where code meets care



Warsaw & Poznań

are among key strategic locations for Roche Informatics

We are currently home to **around 550 employees** getting together under one informatics organization

40 people leaders & 20 product managers from Poland are leading teams around the globe

Who am I?



- **20+** years of professional experience
- **14** years at Roche
- Python developer, DevOps, MLOps, architect
- Building **production** GenAI applications since early 2023
 - Up to 40K+ unique monthly users
- Lots of **NLP** work earlier
- github.com/chopeen | github.com/grzenkom

RocheChat

AI chatbot for everyone at Roche

Roche

RocheChat

New Chat

Prompt Library

Prompt Generator

Chat History

Search a chat

Last 7 Days (4)

Example curl command for Swagg...

Chat With Document: en.sinequa...

Unique assistant_id list needed

Developer, user, consumer perspe...

Last 30 Days (8)

Greeting exchange without furthe...

Search engine privacy control for ...

Adaptive learning for chemical ele...

User requests to read code snipp...

Token identification query without...

MG Marek Grzenkowicz

Example curl command for Swagger API request.

```

{
  "input": {
    "llm_name": "gpt-3"
  }
}

```

RocheChat 5:26 PM Yesterday

It looks like the API expects the body to be a single string, not a JSON object with a key-value pair. You should send the LLM name directly as a string. Here's the corrected cURL command:

BASH

Copy code

```

curl -X POST <API_ENDPOINT> \
-H "Content-Type: application/json" \
-d "gpt-3"

```

Explanation:

- d "gpt-3" sends the string "gpt-3" directly as the request body.

This should satisfy the requirement for sending a valid string in the request body. Replace <API_ENDPOINT> with the actual URL of your API.

Ask me anything

📎

🔗

📄

🔊

GPT-4o

20,000

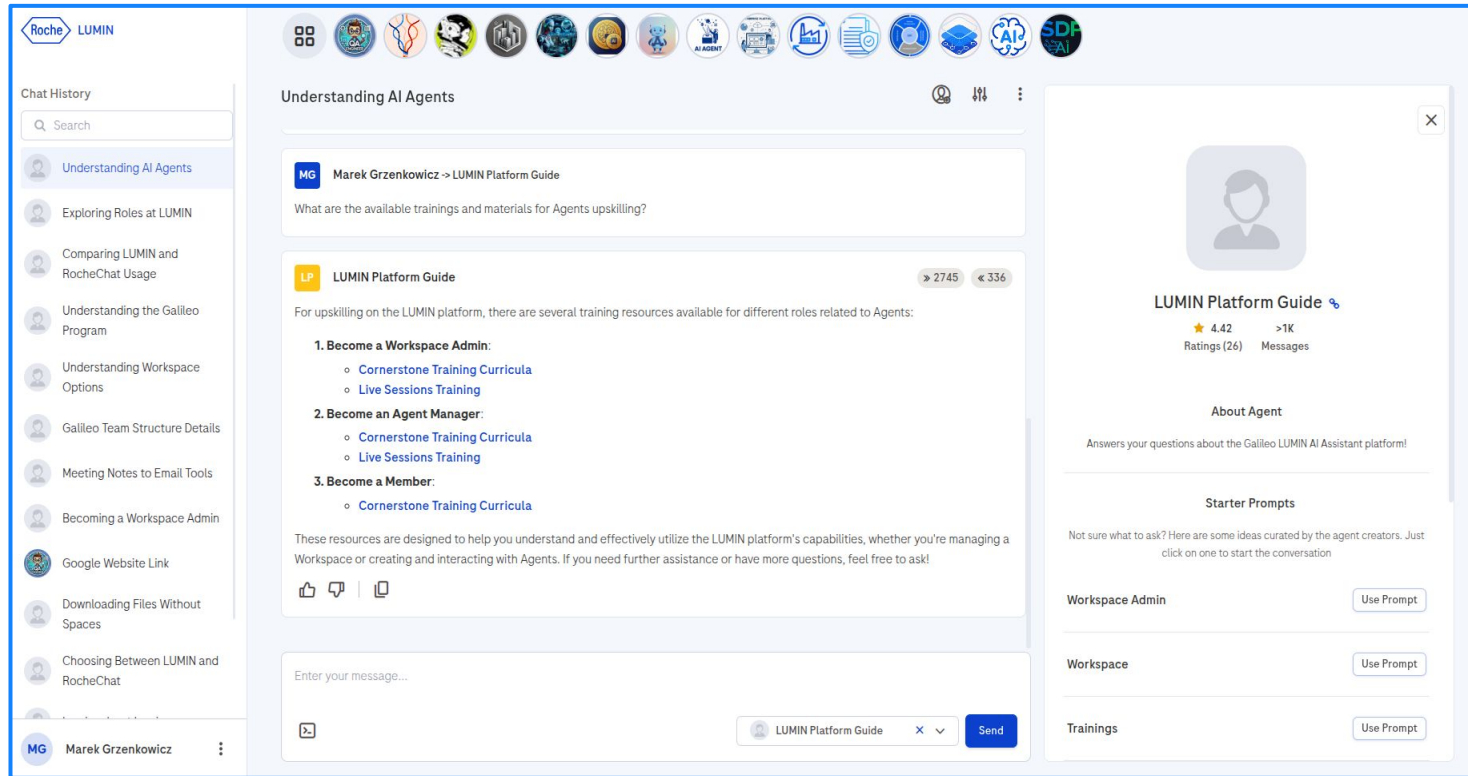
Send

Please check all responses for accuracy. [Read more](#)

Version 2.48

Lumin

No-code AI assistant platform for everyone at Roche



The screenshot displays the Lumin AI assistant interface. On the left is a 'Chat History' sidebar with a search bar and a list of previous conversations. The main area is titled 'Understanding AI Agents' and features a chat with 'Marek Grzenkowicz' asking about training resources. Below the chat is a 'LUMIN Platform Guide' card with a list of training resources for different roles. On the right is a profile card for the 'LUMIN Platform Guide' agent, showing its rating and a list of starter prompts.

Chat History

- Understanding AI Agents
- Exploring Roles at LUMIN
- Comparing LUMIN and RocheChat Usage
- Understanding the Galileo Program
- Understanding Workspace Options
- Galileo Team Structure Details
- Meeting Notes to Email Tools
- Becoming a Workspace Admin
- Google Website Link
- Downloading Files Without Spaces
- Choosing Between LUMIN and RocheChat

Understanding AI Agents

Marek Grzenkowicz -> LUMIN Platform Guide

What are the available trainings and materials for Agents upskilling?

LUMIN Platform Guide (2745 likes, 336 dislikes)

For upskilling on the LUMIN platform, there are several training resources available for different roles related to Agents:

- Become a Workspace Admin:**
 - Cornerstone Training Curricula
 - Live Sessions Training
- Become an Agent Manager:**
 - Cornerstone Training Curricula
 - Live Sessions Training
- Become a Member:**
 - Cornerstone Training Curricula

These resources are designed to help you understand and effectively utilize the LUMIN platform's capabilities, whether you're managing a Workspace or creating and interacting with Agents. If you need further assistance or have more questions, feel free to ask!

LUMIN Platform Guide (4.42 Ratings (26), >1K Messages)

About Agent

Answers your questions about the Galileo LUMIN AI Assistant platform!

Starter Prompts

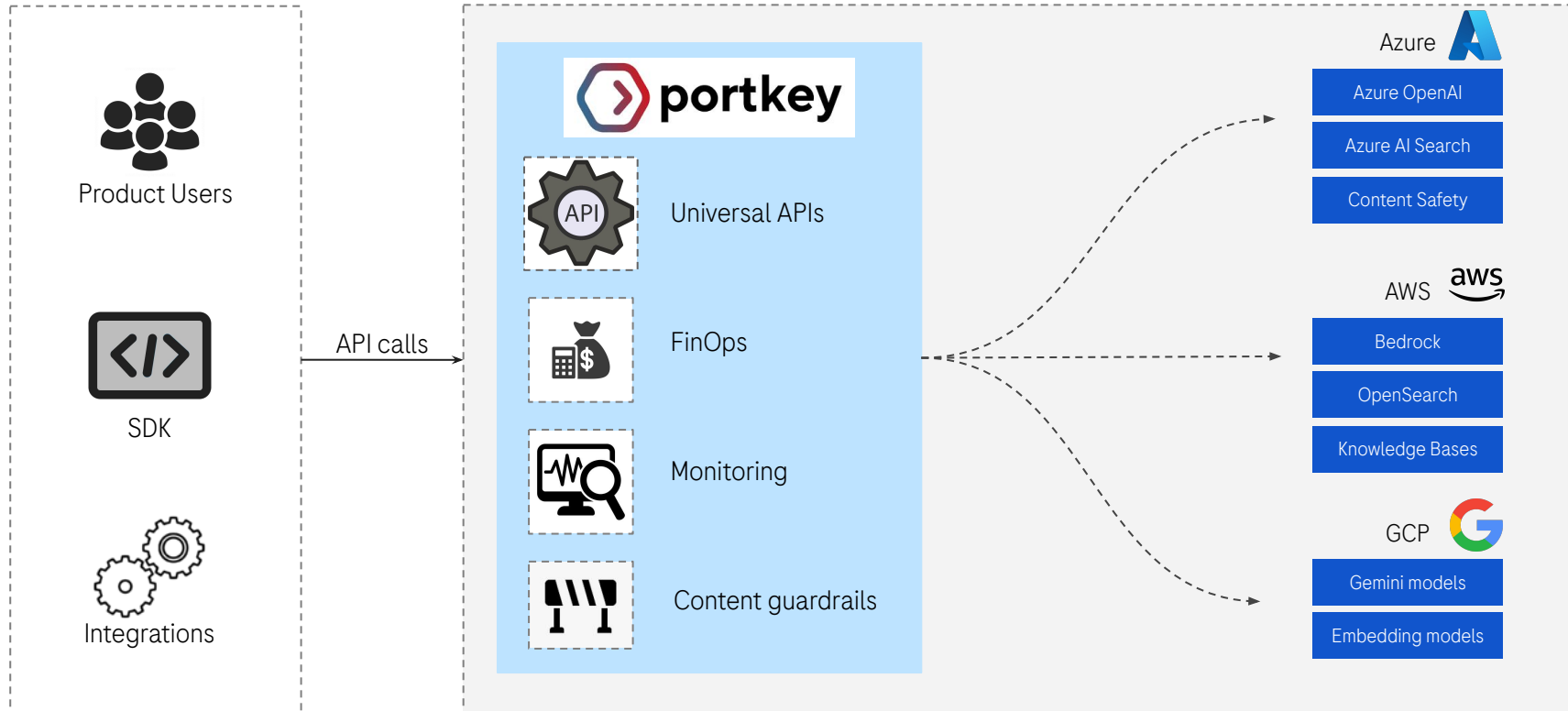
Not sure what to ask? Here are some ideas curated by the agent creators. Just click on one to start the conversation

- Workspace Admin (Use Prompt)
- Workspace (Use Prompt)
- Trainings (Use Prompt)

Enter your message... (Send)

Galileo Platform

Centralized hub for the AI services



Show of hands 🙋

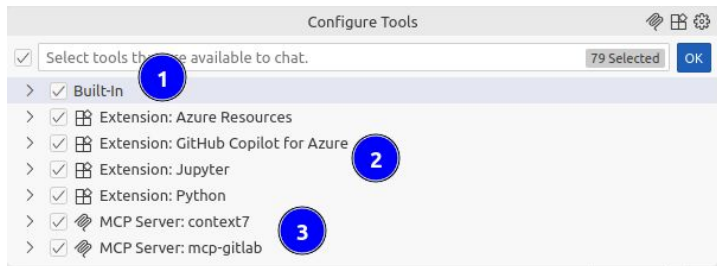
1. Who does use **AI chat applications** (e.g. ChatGPT) for coding tasks?
2. Who does use any **coding assistant** directly in the IDE?
3. Who does use a coding assistant in **agentic mode** to let it performs tasks independently?
4. Who does feel that coding assistants **increase their productivity**?

Selected features of GitHub Copilot

NOT a complete list

1. Three different modes
 - [Use **ask** mode in VS Code](#)
 - [Use **edit** mode in VS Code](#)
 - [Use **agent** mode in VS Code](#)
2. Different models
3. [Custom instructions](#) (file `.github/copilot-instructions.md` and [other instruction files](#))
4. Tools

◦



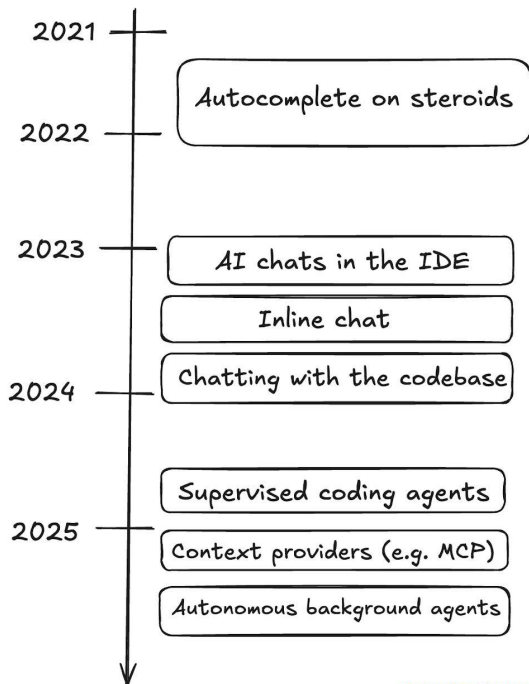
Demo

1. Real use cases
2. Real project repositories
3. Things may go haywire, but that's part of working with coding assistants

Closing remarks

Start small, start careful, but start

1. GitHub Copilot today is **not** the tool you used last year



pragmaticengineer.com

Source: [Learnings from two years of using AI tools for software engineering](#)

Closing remarks (cont.)

Start small, start careful, but start

2. Coding assistants do **not** guarantee immediate productivity gains
 - Especially the agentic mode requires time to learn it and set up your project properly
 - It is an **investment** in the beginning
3. The **more effort** you put into guiding them the better the results
 - Detailed problem statement
 - Project-specific custom instructions
 - Context tailored for each prompt
4. **Good test coverage** will make the generated code more trustworthy
 - Question to consider: should the tests be implemented by humans **or** AI?

Action items

1. Keep experimenting with the tools, modes, models, etc. and find a setup that works for you
2. Observe others (colleagues, YouTubers, etc) and look for inspiration
3. Pay attention to the monthly release notes in VS Code (or any other tool you use)
4. Embrace the shifted role of a developer – from writing code to curating knowledge and teaching AI systems how to work effectively

Links

Different views on the GenAI tools in coding

- [My LLM codegen workflow atm | Harper Reed's Blog](#)
- [How I program with LLMs](#)
- [How I Use "AI"](#)
- [Here's how I use LLMs to help me write code](#)
- [Why I stopped using AI code editors](#)
- [As an Experienced LLM User, I Actually Don't Use Generative LLMs Often](#)
- [There's Beauty in AI](#)
- [LLMs are Making Me Dumber](#)
- [AI-assisted development needs automated tests](#)
- [Engineers and AI: ramblings of a small startup founder](#)
- [How much faster can coding assistants really make software delivery?](#)

More or less ordered chronologically, so you may want to **start reading from the end**

Links (cont.)

Different views on the GenAI tools in coding

- [My AI Skeptic Friends Are All Nuts](#)
- [Why I don't think AGI is right around the corner](#)
- [Field Notes From Shipping Real Code With Claude](#) ★
- [Coding agents have crossed a chasm](#) ★
- [How to Vibe Code as a Senior Engineer](#)
- [Vibe Coding in Software Engineering](#)
- [Writing documentation for AI: best practices](#)
- [You are using Cursor AI incorrectly...](#)
- [From Design doc to code: the Groundhog AI coding assistant \(and new Cursor vibecoding meta\)](#)
- [autoregressive queens of failure](#)
- [Learnings from two years of using AI tools for software engineering](#)

★ Highly recommended!

Links (cont.)

Different views on the GenAI tools in coding

- [Coding with LLMs in the summer of 2025 \(an update\)](#)
- [How I Use Claude Code to Ship Like a Team of Five](#)

Links (cont.)

Working with VS Code and GitHub Copilot

- [VS Code Agent Mode Just Changed Everything](#)
- [Ask, Edit, & Agent - In-depth Overview of GitHub Copilot Chat Modes](#)
- [10x Your Productivity: VS Code + GitHub Copilot Agent Mode & MCP](#)
- [Practical Integrations with MCP Servers in VS Code](#)
- [Customizing Copilot in VS Code](#)
- [Working with MCP servers in GitHub Copilot Agent mode](#)
-  [Awesome GitHub Copilot Customizations](#)

Doing now what patients need next