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**Get exclusive free access
to OpenAI's o1 models**

Reasoning with o1

OCT 4 - OCT 11 →

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**Build a tool or application
using OpenAI's o1
new model to automate
complex problem-solving.**

About OpenAI o1 & o1-mini

OpenAI o1-Preview is a developmental checkpoint in the ongoing training of the OpenAI o1 model, highlighting its potential but not yet representing the final release. This model is tailored for **deep reasoning, helping solve complex problems in fields like science, math, and advanced coding**.

OpenAI o1-preview:

- **Focus:** Deep multi-step reasoning across complex tasks.
- **Strengths:** Excels in science, mathematics, and coding challenges. It's particularly good at step-by-step thinking, handling intricate tasks like advanced scientific modeling or solving difficult mathematical problems.
- **Use Case:** Ideal for scientific research, advanced coding solutions, and mathematical competitions requiring high precision.

<https://lablab.ai/tech/openai/o1>

The o1 series marks a new chapter in AI-driven innovation, tailored to meet the demands of intricate challenges in various industries.

OpenAI o1-mini

- **Focus:** Optimized for fast and cost-effective reasoning.
- **Strengths:** While slightly reduced in scope, o1-mini retains core reasoning capabilities and excels in coding tasks requiring efficiency.
- **Use Case:** Ideal for developers focusing on agile, cost-efficient solutions in coding, without sacrificing reasoning capabilities.

Hackathon Challenge

Participants are tasked with **developing an AI-driven tool**. Using OpenAI o1 or o1-mini that **automates decision-making or problem-solving in real-world contexts**. The key is to create innovative, AI-powered solutions for complex issues, **using the deep reasoning capabilities of the o1 models**.

- **Automate Problem Solving:** Use OpenAI o1's ability to break down multi-step problems and provide logical, reasoned solutions.

Develop Practical Applications: Focus on building tools that can make a meaningful impact in one of the suggested areas, but feel free to explore other fields where OpenAI o1's reasoning can **solve complex real-world problems**.

Real-World Impact: The solution should address a practical problem that could be scaled or implemented in real-world settings.

Key Requirements:

- **Use OpenAI o1's reasoning power:** Ensure your tool takes full advantage of the **multi-step, deep reasoning capabilities**.

Hackathon Challenge

Access OpenAI o1 with AI/ML API!

Hey builders! 🚀

Exciting news for the approved participants who created or joined a team for the hackathon! Thanks to our partner **AI/ML API** you have a chance to **get exclusive FREE access to OpenAI's o1 models**.

We're giving away **1000 keys with \$20 in AI/ML API credits**, for the **free subscription week with an access to o1-preview and o1-mini models** to supercharge your AI projects! Access them by **using a promo code** that will be provided to **approved participants via email**.

With over 100 models from OpenAI o1 & o1-mini, LLama, Qwen and Flux, the **AI/ML API** covers all your needs, from image generation to computer vision with just one API. ✨

Here's how you can get started:

- Read our article [How to Access OpenAI's o1 Models and Who Can Use Them](#).
- **Access free subscription week** by registering on AI/ML API website, choosing the Startup plan and entering the promo code. Access will be **available for one week from the Hackathon start**.
- We recommend that participants monitor their token usage, as the o1-preview model is significantly more expensive than other language models. To manage costs more efficiently, **we suggest using o1-mini model for prototyping**.

Hackathon Challenge

For the technical support, visit [AI/ML API Discord](#).

Important Notes:

- Please note that the AI/ML API is a subscription-based service. If you do not plan to continue using it after the hackathon, please remember to cancel your subscription to avoid any charges.

Suggested Focus Areas



Scientific Research

Automate experiments, build predictive models, or accelerate scientific workflows using AI-driven reasoning.



Healthcare

Design tools for diagnostics, patient care, or medical decision-making to enhance healthcare outcomes.



Advanced Coding

Develop AI-powered assistants that can help solve complex coding tasks, automate workflows, or even suggest improvements to code logic.

NEXT AI Startup ideas

lablab NEXT is a dynamic, 6-week accelerator program designed to fast-track startup prototypes and **MVPs (Minimum Viable Products)** into the market. Participants receive intensive, hands-on guidance from industry experts, ensuring they have the tools, knowledge, and support necessary for success.

For our top performers from the lablab.ai community, it is an excellent opportunity to bring their innovative ideas to life and make a real impact in the competitive business world. 🌍

💡 AI Startup ideas:

Too many duplicate submissions are crowding already saturated areas. This document contains **200 unique ideas**, each capable of becoming **a successful AI company**—and surprisingly, few of our hackers have explored them 🚀

- Use ideas from this document to inspire your hackathon project. **Build an AI-powered tool that could form the basis for a startup, leveraging the power of OpenAI o1.**

[AI Startup ideas \(notion.site\)](#)

What to submit?

Basic Information

- Project Title
- Short Description
- Long Description
- Technology & Category Tags

Cover Image and Presentation

- Cover Image
- Video Presentation
- Slide Presentation

App Hosting & Code Repository

- Public GitHub Repository
- Demo Application Platform
- Application URL

For further details and guidance, please visit [Submission Guidelines](#)

Judging Criteria

Application of Technology

How effectively the chosen model(s) are integrated into the solution.

Business Value

The potential impact and practical value of the solution.

Presentation

The clarity and effectiveness of the project presentation.

Originality

Uniqueness and creativity in addressing the challenge.

Hackathon Details

Join lablab.ai hackathon and innovate using the latest models in the market. Discover all the relevant details below.

Where and when

The start date of the hackathon is mentioned according to the date specified on the hackathon page, cover and schedule. The hackathon will take place on the lablab.ai platform and lablab.ai Discord server.

What about teams?

If you don't have a team, don't worry! You can connect with other participants from all over the world on our dashboard or Discord server. We also recommend checking out our Discord server to find teammates and bounce around ideas. You can join the server [here](#).

Get prepared / Use Lablab.ai to Learn About AI

To get ready for the hackathon, visit our [AI Tech](#) pages and read up on all the available technologies. You can also check out our [tutorials](#) page for more information on how to use them. Get a head start on your project by using the resources on lablab.ai!

Who can join?

Everyone is welcome to participate, regardless of previous AI or coding experience! We encourage anyone with a passion for AI or an interest in exploring how it can be used in their field to join.

How to participate

The hackathon will take place online on lablab.ai platform and [lablab.ai Discord Server](#). Please register for both in order to participate. To participate click the "Enroll" button at the bottom of the page and read our [Hackathon Guidelines](#) and [Getting Started Guide](#).

Hackathon Details



Reasoning with 01 Reasoning Pioneers Team



ZULFIQAR ALI MIR

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Data Sci n Applied Gen AI Eng

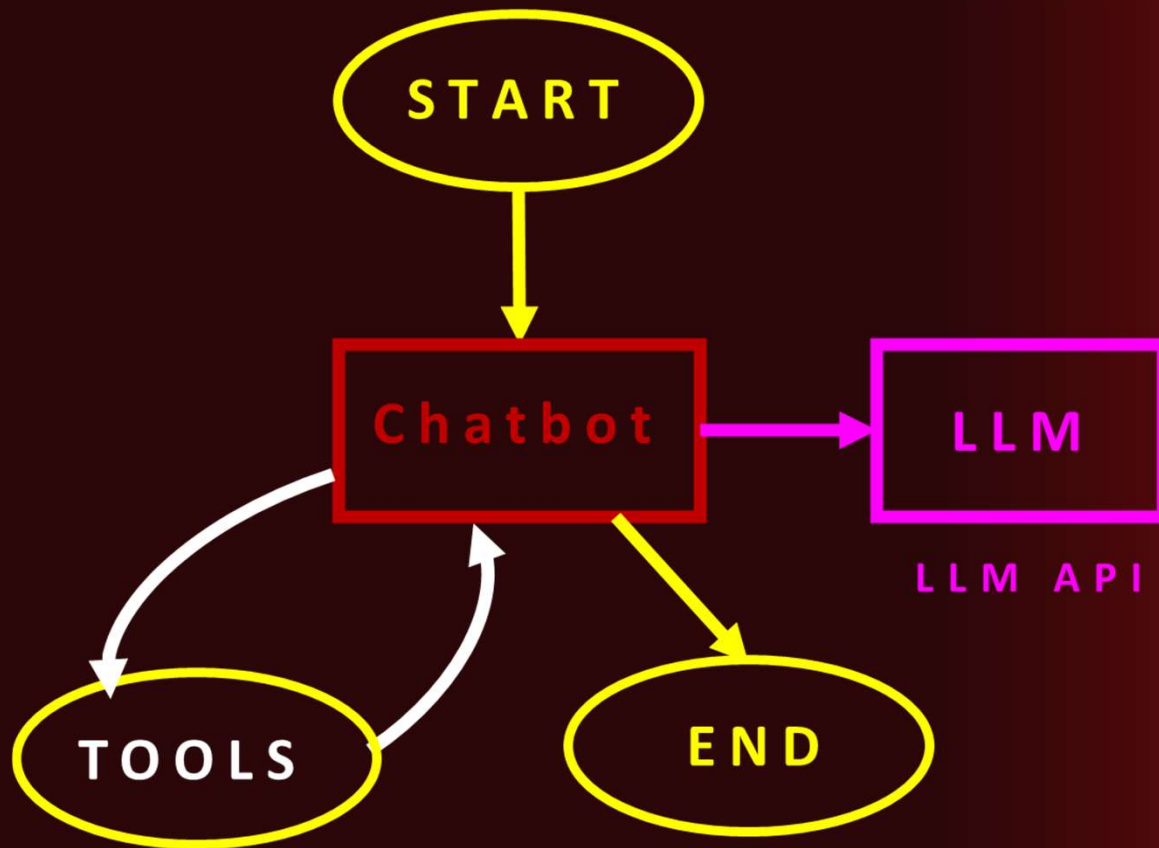


Muhammad Rayyan

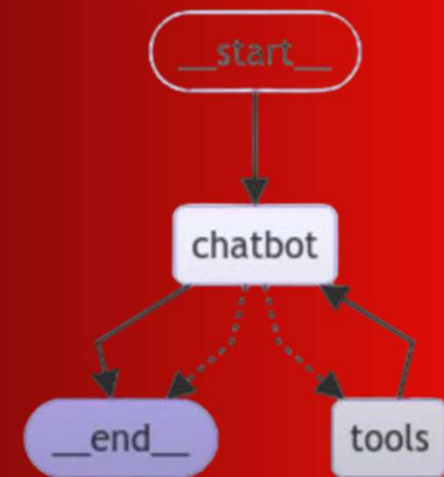
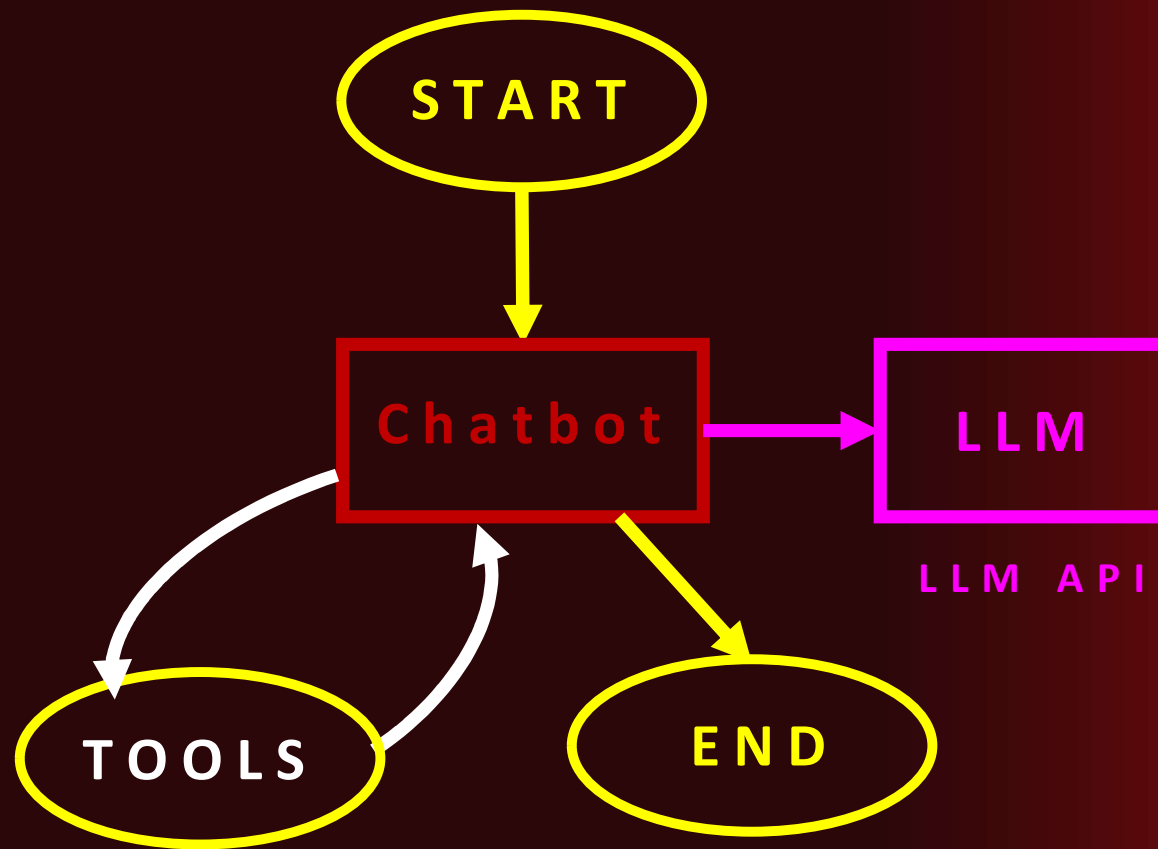
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Architecture or Flow



Architecture or Flow





Reasoning with 01 Reasoning Pioneers Team



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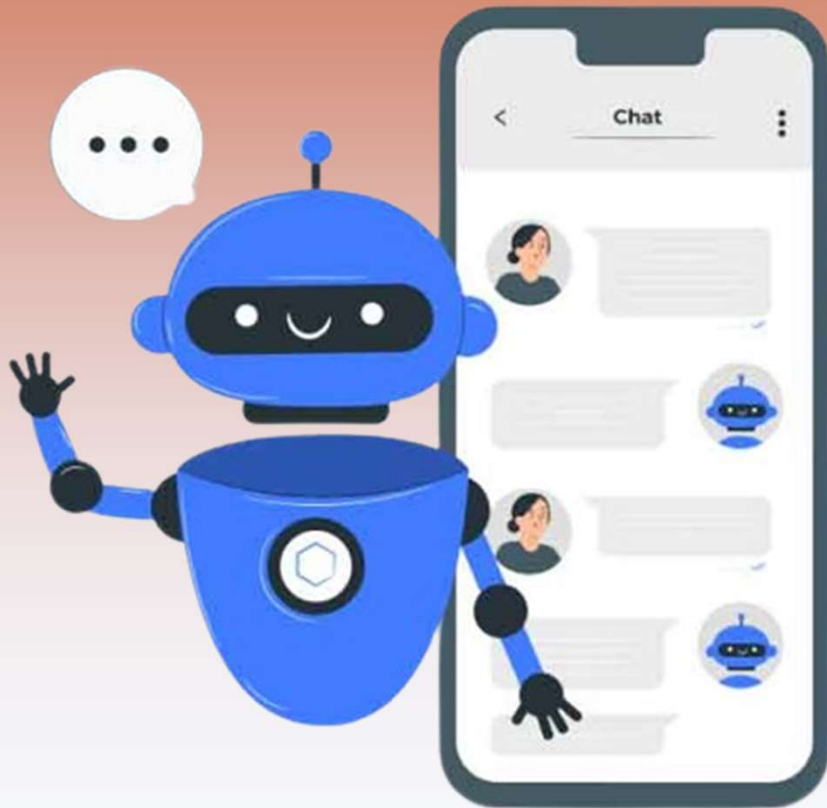
Data Sci n Applied Gen AI Eng



Muhammad Rayyan

rayyan_physicist





Thank You!