UTD Hack 2025

Nemotron Prize Track

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Challenge Statement:

In Addition to Using Nemotron, Your Project Must Include:

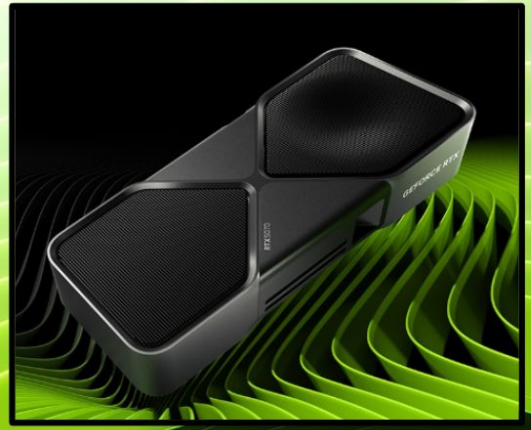
- ✅ Beyond a Chatbot - not just responding directly to prompts
- ✅ Multi-step workflows - agents that plan and execute complex tasks
- ✅ Tool integration - using external APIs/services intelligently
- ✅ Real-world applicability - solving actual problems

Prizing:

First Place:

3 RTX 5080 GPUs

3 NVIDIA Logo Hats



Second Place:

2 RTX 5080 GPUs

3 NVIDIA Backpacks

3 $100 Brev Credits

Third Place:

3 NVIDIA Backpacks

3 $200 Brev Credits

Essential Resources

Quick Start Workshops (self-paced, deploy in minutes):

Report Generator Agent Tutorial - Learn agent architecture with LangGraph

Agentic RAG Tutorial - Build smart retrieval systems

Refer to the get-started tutorials:

Build a Report Generator AI Agent with NVIDIA Nemotron on OpenRouter

Build a Retrieval-Augmented Generation (RAG) Agent with NVIDIA Nemotron

Access Nemotron:

build.nvidia.com - get API key

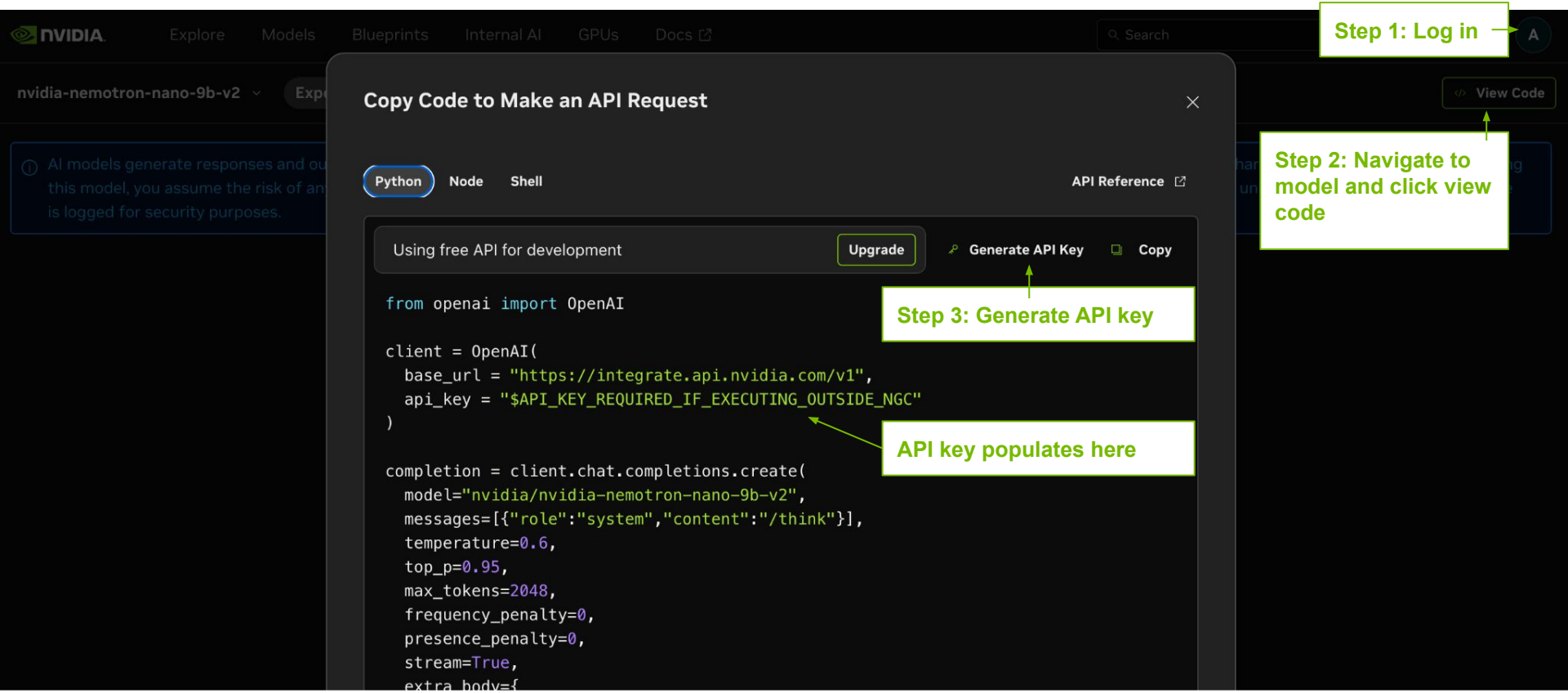
Via OpenRouter API Nemotron-nano-9b-v2

On Hugging Face (open weights)

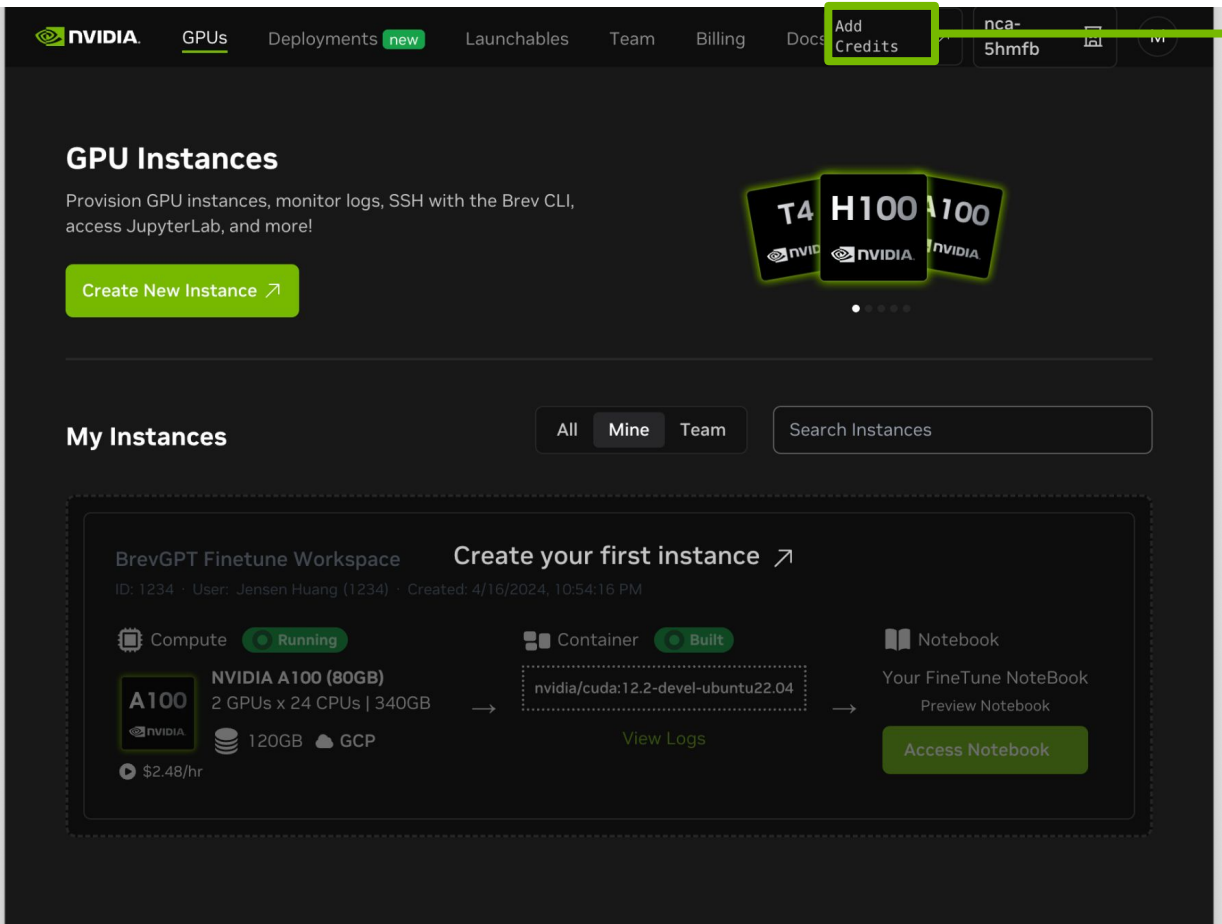
Brev Getting Started:

https://docs.nvidia.com/brev/latest/

Getting Started - build.nvidia.com



Getting Started - brev.nvidia.com



$60 Redeem code

utdhackathon-2025

Ideal Projects for This Track

Winning projects will showcase true agentic behavior:

Multi-Agent Systems: Build teams of specialized AI agents
(like Report Generator: Research Agent → Outline Agent → Writer Agent → Editor)

Agentic RAG: Systems that intelligently decide WHEN to retrieve information, not just HOW (perfect for domain-specific assistants)

ReAct Pattern Workflows: Agents that Reason → Act → Observe in loops to solve problems iteratively (like automated debugging or technical support)

Tool-Calling Applications: Leverage Nemotron's exceptional ability to use external APIs and tools (finance analysis, DevOps automation, content creation)

Multi-Modal Agents: Combine Nemotron reasoning with VLMs
(visual analysis + logical decision-making)

Agent Simulation & Evaluation: Use Nemotron to generate realistic test scenarios and evaluation pipelines

NVIDIA - NEMOTRON

“

The most open approach to AI development the world has ever seen.

Bryan Catanzaro, VP of Applied Deep Learning Research. NVIDIA

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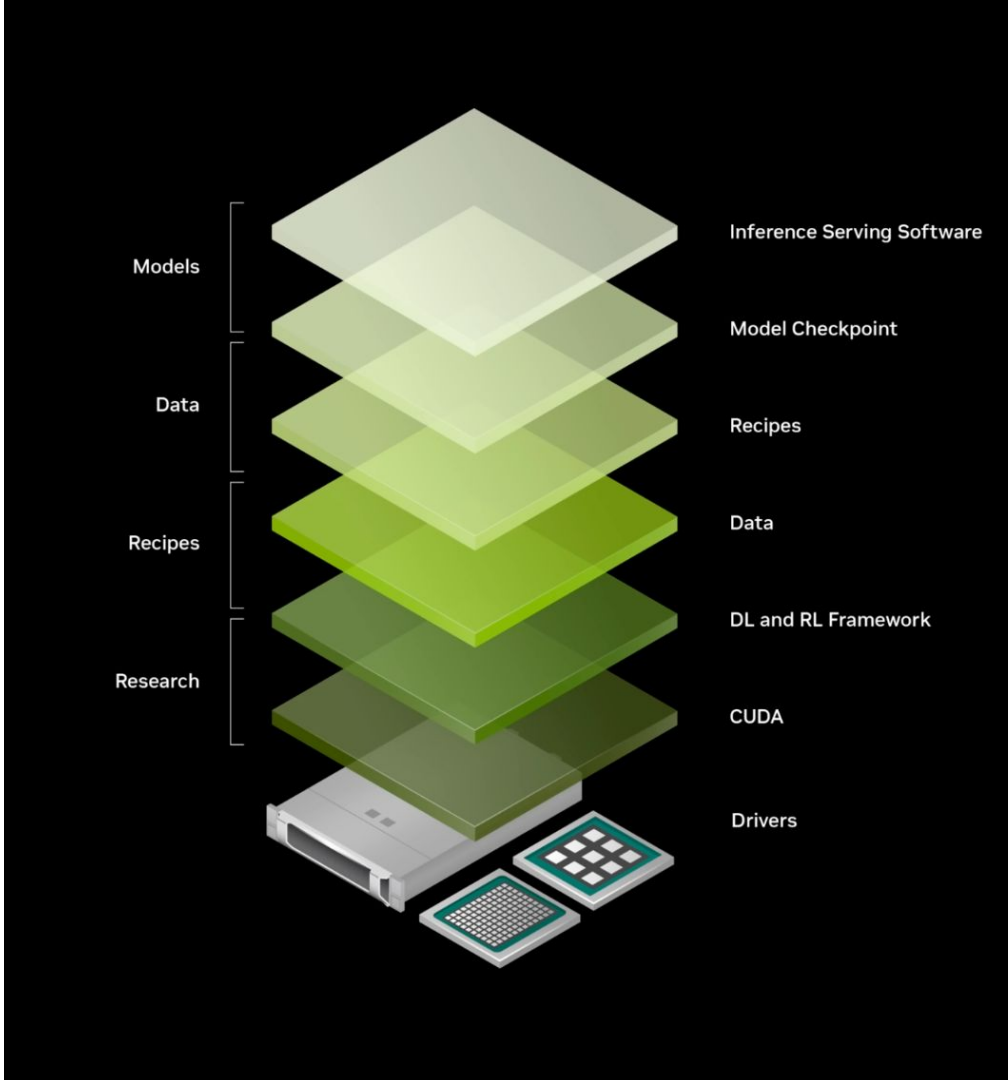
Nemotron

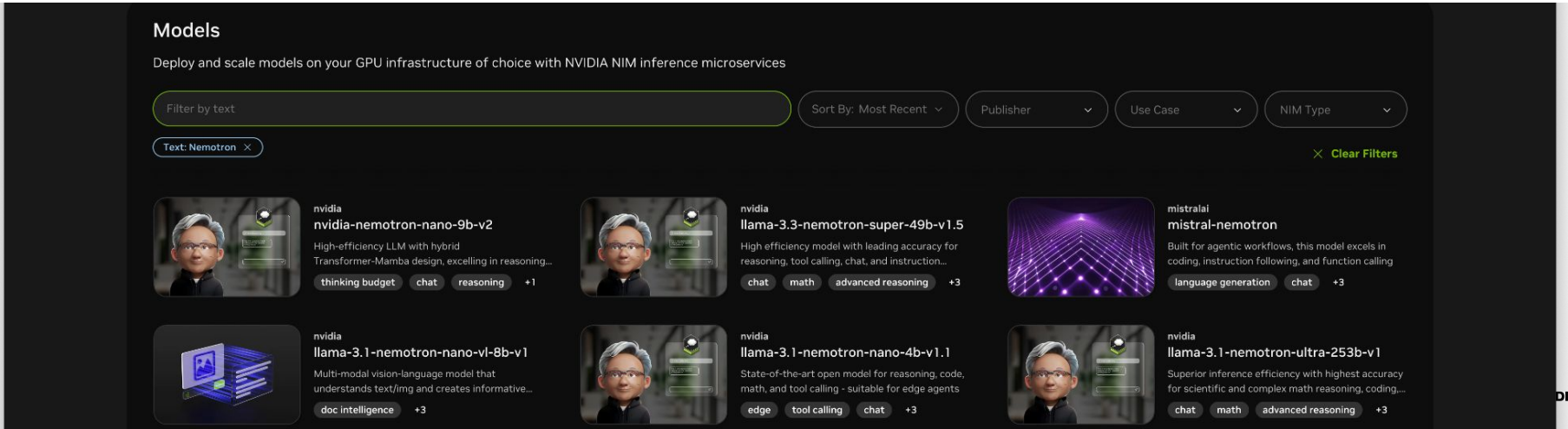
Is more than models. It’s a focus on optimizing for our AI ecosystem to provide the best quality of results across our technology stack.



What is Nemotron Best For?

NVIDIA Nemotron models are purpose-built for agentic AI - the next generation of intelligent systems that don't just answer questions, but reason, plan, and take action. Unlike general-purpose LLMs, Nemotron excels at:

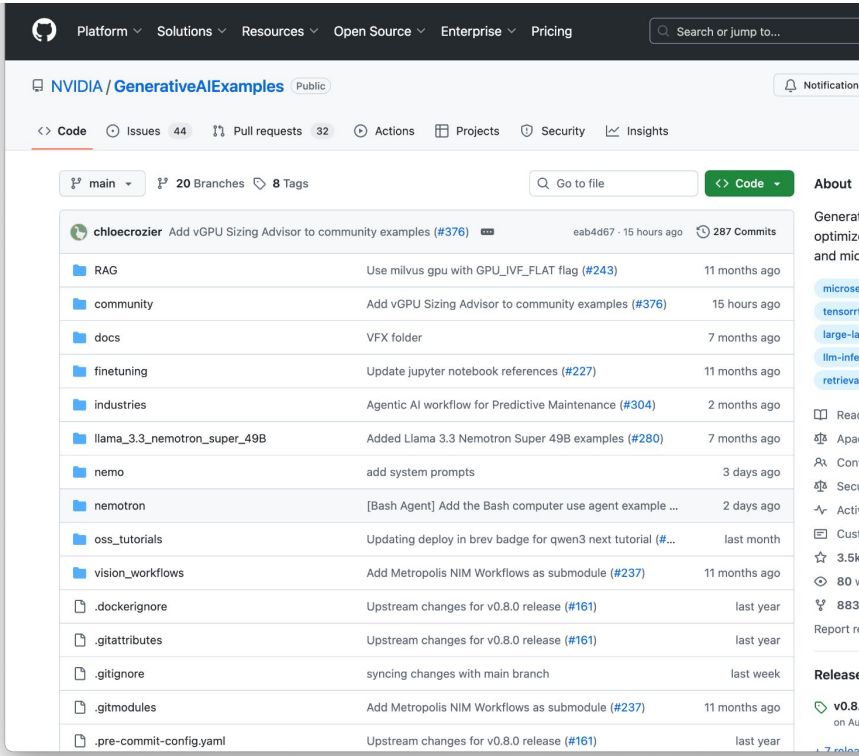
- Advanced reasoning and multi-step problem-solving
- Function calling to interact with external tools and APIs
- Autonomous decision-making within agent workflows
- Retrieval-augmented generation (RAG) for knowledge-based tasks
- Multi-agent orchestration where specialized agents work together together



Learn from Past Winners

Agent examples here
github.com/NVIDIA/GenerativeAIExamples

- Route Optimization Agent (NVIDIA NeMo Hackathon): Multi-agent system coordinating logistics with specialized agents for constraint extraction and route planning
- Automated Bug Fixer (Dust Hackathon): Non-technical users describe bugs, agent autonomously diagnoses and fixes code
- Multi-Agent Research System (lablab.ai): Orchestrated deep research with autonomous agent collaboration



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Happy Hacking!

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