

# NVIDIA NIMs HACKATHON

FAQ Document



# General FAQ

- **Why should I participate in this hackathon?**
  - The hackathon provides a unique opportunity to work alongside with mentors on latest AI technologies and exciting prizes
- **Who can participate in this hackathon?**
  - A team comprising of 2-5 members can participate in the hackathon.
- **Who owns the solution created during the hackathon?**
  - The solution is owned by the team.
  - NVIDIA or any other organizer does not claim any ownership.
- **Is it necessary for our team to use the cluster provided by NVIDIA or we can use my own infrastructure?**
  - Both options are available, team can use the infrastructure provided by NVIDIA or use their own.
- **Is it virtual or in-person?**
  - The hackathon is a virtual event, open for Indian nationals. The final presentations for the selected 10 teams would be in-person at the AI Summit in Mumbai on October 23. Minimum 2 members from the selected team are expected to be present for the presentation to the Jury.
- **How does mentorship work?**
  - Teams selected for stage 2 would be assigned a NVIDIA mentor who would guide them through office-hour sessions from 25 September to 16 October 2024.

# Problem Statement FAQ

- What are the Problem statement tracks?
  - **Track 1: Bring your own problem**
    - Please click the checkbox “I would like to define a Custom Problem Statement” and proceed with the next steps

Create Application

\*Select Your Problem Statement

Advanced RAG System for Comprehensive Code Analysis and Generation

☐ I would like to define a Custom Problem Statement

Create Application

☒ I would like to define a Custom Problem Statement

\*Problem Statement Title

\*Problem Statement Description ⓘ

\*Dataset ⓘ

\*Frameworks and Tools Used ⓘ

References ⓘ

- **Track 2: Pre-defined problem statement**

Create Application

\*Select Your Problem Statement

Advanced RAG System for Comprehensive Code Analysis and Generation

# Problem Statement FAQ

- **Who should apply by bringing own problem statement - Track 1?**

Teams with already an:

- Exposure to NVIDIA NIMs or other tools and SDKs.
- Having pre-defined goals with existing open or proprietary datasets.

- **Can I get my own dataset - Track 1 : Bring your own problem?**

- Yes, you can get your own datasets, but you need to declare the dataset license in advance (proprietary/limited access/open source/any-other-license)

- **Where can I ask more queries on the problem statement?**

- Slack link:

[https://join.slack.com/t/nvidianimshackathon/shared\\_invite/zt-2nenvxeg7-mODiyBjFFu079OYJ\\_02WWw](https://join.slack.com/t/nvidianimshackathon/shared_invite/zt-2nenvxeg7-mODiyBjFFu079OYJ_02WWw)

# Problem Statement FAQ

- **Who should apply for pre-defined (NVIDIA given) problem statement - Track 2 ?**
  - Teams that are just starting to explore the NVIDIA tools and SDKs are recommended to apply for the pre-defined problem statement.
- **Can I get my own dataset - Track 2 : Pre-defined problem statement?**
  - Yes, any publicly available dataset along with synthetically generated datasets can be used, but they need to be submitted along with their relevant license(s) during the final submission.
- **Where can I find more information about the problem statement?**
  - More information can be found under problem statement tab of the application page
- **Where can I ask more queries on the problem statement?**
  - Slack link:  
[https://join.slack.com/t/nvidianimshackathon/shared\\_invite/zt-2nenvxeg7-mODiyBjFFu079OYJ\\_02WWw](https://join.slack.com/t/nvidianimshackathon/shared_invite/zt-2nenvxeg7-mODiyBjFFu079OYJ_02WWw)

# Problem Statement FAQ

- **What are the judging criteria for Stage 1 - Track 1 & Track 2 ?**
  - Teams are required to submit a presentation by Sep 3. This presentation will be used for evaluation and selection for Stage 2. The presentation should cover the following sections:
    - **Team skill set:** Assessment of the team's collective expertise and competencies.
    - **Understanding of the problem statement:** Evaluation of the team's comprehension and articulation of the problem at hand.
    - **Proposed solution:** Analysis of the feasibility, innovation, and effectiveness of the solution presented.
    - **Long-term roadmap:** Examination of the strategic plan for the solution's implementation and sustainability over time.
- **How many teams would be selected for Stage 2?**
  - Based on the presentations, overall 10 teams will be selected for the stage 2.
- **When will the results of Stage 1 be released?**
  - The teams selected for stage 2 will be announced on September 25.

# Problem Statement FAQ

- **What are the judging criteria for Stage 2 - Track 1: Bring your own Problem**
  - Teams would be evaluated based on the following criteria:
    - **Innovation and Relevance:** Uniqueness of the problem statement and its relevance to real-world applications.
    - **Effective Use of NVIDIA NIMs:** Innovative integration and utilization of models from the NVIDIA NIM Catalog to address the presented problem.
    - **Technical Implementation:** Scalability, and overall solution architecture.
    - **Presentation and Demo:** Clarity of project presentation and demonstration.

# Problem Statement FAQ

- **What are the judging criteria for Stage 2 - Track 2: Pre-defined Problem statement**

Teams would be evaluated based on a series of Quantitative & Qualitative metrics:

- **Quantitative Performance :**
  - Accuracy and efficiency of code generation, explanation, and debugging assistance based on predefined test cases using industry accepted metrics such as faithfulness, answer relevancy, context recall & context precision.
- **Qualitative Assessment :**
  - Project implementation and presentation: Overall RAG pipeline design, creative use of NVIDIA NIM API Catalog models, and novel approaches to integrating CUDA documentation.
  - Technical Understanding and Analysis: Depth of understanding demonstrated in retrieval and summarization of CUDA-related information.
  - Guardrails: Integration of NeMo Guardrails to handle out-of-scope and potentially malicious prompts appropriately.



Learn more at  
[WWW.OPENHACKATHONS.ORG](http://WWW.OPENHACKATHONS.ORG)