

# HTC Week 2026 Community Pulse: AI Meets CI

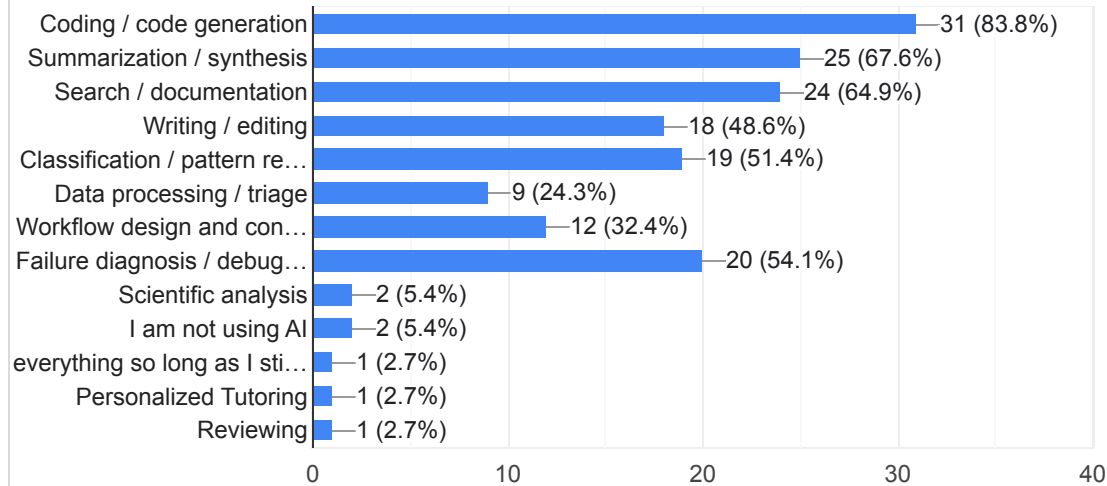
37 responses

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## What do you trust AI to do today?

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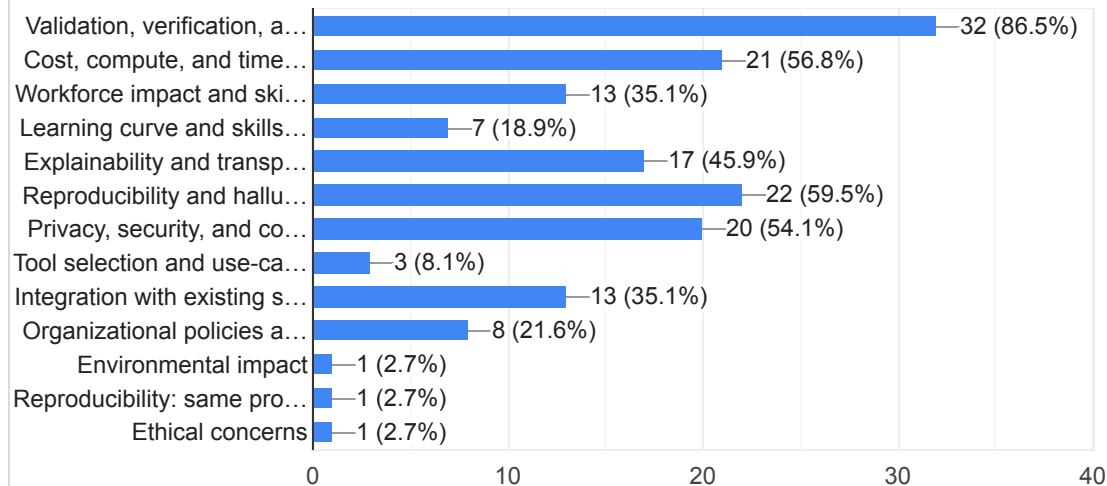
37 responses



## What are the most challenging aspects of adopting AI?

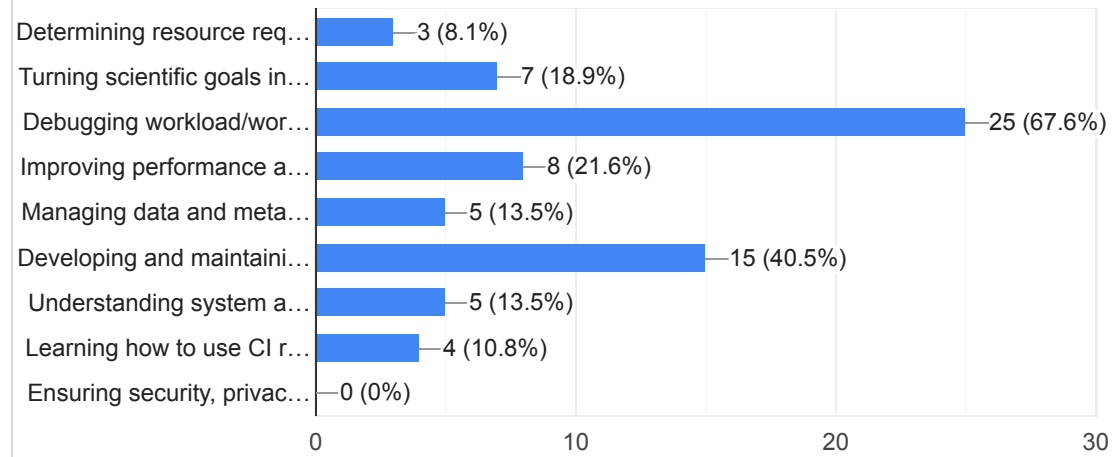
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37 responses



## What aspect of computational research would benefit most from AI? (Select at most 2)

37 responses



## What is one AI or non-AI capability you wish existed today for HTC or scientific workflows?

17 responses

Fully automatic provisioning

Cluster/access point-level prompting to help AI tools understand the nature of the system

Functional data management from discovery to processing

A library of tools to be used by agents

automatic script generation

handling errors automatically, when it's just a submission config issue

Matrix of AI type (e.g., classification, generation, search) vs task for common tools

Set up and run sensitivity analysis for different values of input parameters for large HPC simulation codes.

Automated support for tracking metadata

A prompt to workflow to execution flow. The entire harness that will allow a full prompt to running the execution.

Failure tracing / guessing issues for failing workflows.

Better tools for results interpretation and analysis. Not just "faster" compute.

MPI Support

Interactive

More modular workflows

Common file transfers that get reused between jobs

AI planning/executing workflows while being aware of hardware/infrastructure limits



## What community activities, resources, or collaborations would help you leverage AI for cyberinfrastructure and science?

14 responses

Not sure

NAIRR presents an opportunity to move from a bag of resources to effective, efficient workflows based on common architectural patterns. There should be a collaboration that works on this.

Workshops/seminars or repository of types of using AI effectively w.r.t. reproducible research and tasks with provenance of process/data/thought

Ways to share screens collaboratively and securely.

Allocations on HPC style GPU resources

People sharing their experiences

Trainings and workshop

Shared examples, tutorials, Claude "skills"

<https://uw-madison-datascience.github.io/ML-X-Nexus/>

Improve people skills

RCD Professionals focused trainings

Short, focused workshops

N/A

Trusted and vetted implementations of AI, recommended by other cyberinfrastructure specialists

