Empowering Research with AI

Hands-On Machine Learning & HPC at UTEP

R&I and the Applied AI Innovation Institute (AAII) invite faculty and faculty-invited students to a four-part, hands-on workshop series exploring how Artificial Intelligence (AI) and High-Performance Computing (HPC) can strengthen research across disciplines.

Participants will gain direct experience with UTEP's advanced computing resources, including the NVIDIA DGX system powered by Hopper GPUs, while building skills to apply AI tools in their own projects.

Who Should Attend

- UTEP faculty from all disciplines
- Faculty-invited students interested in research applications of AI
- Beginners and those new to HPC/AI tools

What You Will Learn

- Access UTEP's HPC resources
- Understand Machine Learning (ML) fundamentals
- Build and train models
- Leverage NVIDIA Hopper Graphic Processing Units (GPUs)

Workshop Schedule

Session 1: Introduction to NVIDIA DGX and Workload Scheduling
Get started with HPC access and learn how to schedule and manage workloads effectively.

FRIDAY, SEPTEMBER 19, 2025 | 9:00 AM - 12:00 PM | LOCATION TBD

Session 2: Custom Environments and Notebooks
Explore how to create tailored computing environments and use Jupyter notebooks for AI experimentation.

FRIDAY, SEPTEMBER 26, 2025 | 9:00 AM - 12:00 PM | LOCATION TBD

Session 3: Machine Learning and Development Libraries
Gain hands-on experience with ML libraries to build and train models aligned with your research needs.

FRIDAY, OCTOBER 3, 2025 | 9:00 AM - 12:00 PM | LOCATION TBD

Session 4: User Presentations and Real Use Cases
Share your progress, test your own data or code, and receive feedback from peers and facilitators.

FRIDAY, OCTOBER 10, 2025 | 9:00 AM - 12:00 PM | LOCATION TBD

Registration

Reserve your spot by scanning the QR code. Space is limited, and registration is required to receive materials, access session resources, and location details. Please bring a laptop to participate in hands-on activities.

Insights + Impact

Strategies That Secure Funding

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