Logistics and Computational Environment

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Advanced Study Institute: Artificial Intelligence for Disaster Management
Orlando, November 17 – 25, 2025

NATO OTAN

This activity is supported by: The NATO Science for Peace and Security Programme

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Agenda

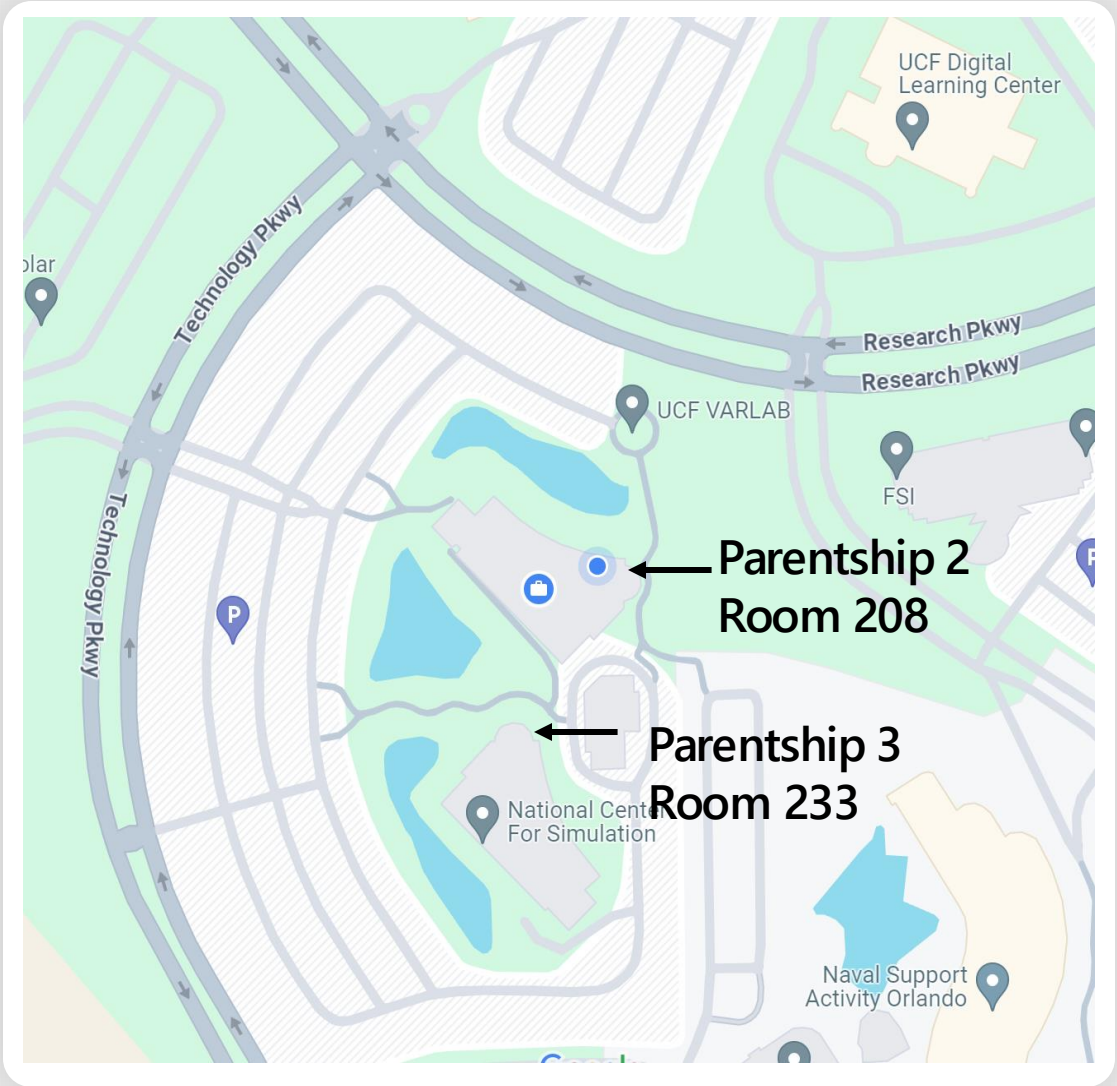
1. Review key logistical information and communication channels
2. Introduce Google Colaboratory (Colab) cloud-based computational environment
3. Course GitHub organization, Google Drive and Hugging Face links
4. Datasets
5. Successfully run the 00_Setup_Check.ipynb notebook to confirm everything is working

Event Location

Location: 3100 Technology Parkway, Partnership II, Room#208

Friday 11/21 (only this day): Partnership III, Room#233

Beverage service: 8:45am-4:15pm
Lunch (on your own)
Hosted dinner (11/18 6pm The Celeste Hotel)



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Communications

Event Website: https://sites.google.com/view/nato-sps-ai4dm
This is your primary source for the daily schedule.

Communication Channel: Zoom
For real-time questions, announcements, and sharing resources. Please mute during sessions.

Wi-Fi (In-Person):
Network: UCF_Guest
Password: No password required, browser sign-in.

Getting Help:
In-Person: Our student helpers are here to assist. Please raise your hand.
Virtual: Our virtual moderators are monitoring the Zoom chat.

Our Computational Playground

- **Zero Installation:** Runs entirely in your web browser. No need to install Python, CUDA, or libraries on your own machine.
- **Free GPU Access:** Provides free access to powerful GPUs (Graphical Processing Units), which are essential for deep learning.
- **Collaborative & Shareable:** Based on Jupyter Notebooks, making it easy to share code and results.
- **Pre-requisite:** All you need is a Google Account (e.g., Gmail).

GitHub Organization, Google Drive, Hugging Face

- **GitHub Organization:** All source code and lab notebooks.

  https://github.com/AI4DM

- **Google Drive:** Slides, lecture notes.

  https://drive.google.com/drive/folders/1MhlMeFdNzOoqFR2YGcHHhF9fPu3FOYcg?usp=sharing

- **Hugging Face Organization :** Large datasets and models.

  https://huggingface.co/AI4DM

Datasets

National Oceanic and Atmospheric Administration
U.S. Department of Commerce

https://www.noaa.gov/nodd/datasets

NSF NHERI DESIGNSAFE

https://www.designsafe-ci.org/recon-portal/

https://www.designsafe-ci.org/data/browser/public/designsafe.storage.published

https://noaa-eri-pds.s3.amazonaws.com/index.html

Other Resources

Workshop on Artificial Intelligence for Humanitarian Assistance and Disaster Response

https://neurips.cc/virtual/2023/workshop/66508

Artificial Intelligence for Humanitarian Assistance and Disaster Response Symposium
April 7- 9, 2026 | AAAI'26 Spring Symposium

https://www.hadr.ai/

Computer Vision for Building Damage Assessment using satellite imagery of natural disasters

https://xview2.org/

Other Resources

Developing Scalable CNN for Building Damage Identification

https://www.chishiki-ai.org/cnn-course/README.html#

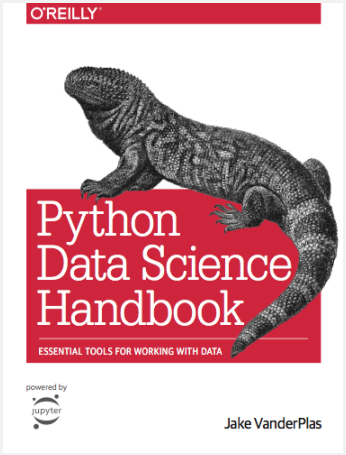
https://www.chishiki-ai.org/categories/courses/

https://github.com/chishiki-ai

AI and Disaster Management

https://www.coursera.org/learn/ai-and-disaster-management?specialization=ai-for-good

Python, ML and DL Resources



https://jakevdp.github.io/PythonDataScienceHandbook/

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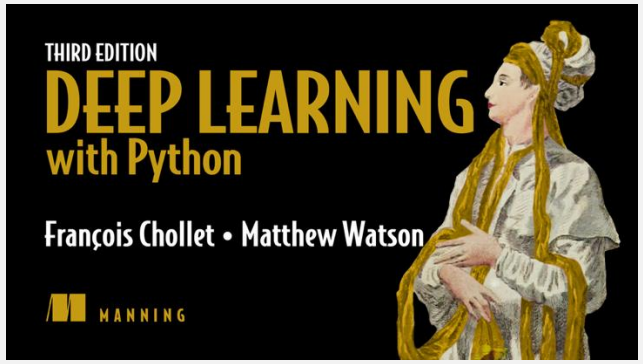
Applied ML

https://kuleshov-group.github.io/aml-book/intro.html



https://deeplearningwithpython.io/

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Thank you for your attention!

Q&A