



# DSC 180 A01 - EXPLAINABLE AI DISCUSSION 4: GRAD-CAM

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Fall Quarter 2020

# ANNOUNCEMENTS

- Instructor's office hour:
  - Fridays 10am
  - [Zoom link on Piazza](#)
- Reminder:
  - Each Tuesday morning, submit your answers to the questions with your participation submission to Canvas

# TASKS FOR THIS WEEK

## **Reading (due yesterday at noon)**

- Watch the video and read the detailed explanation of the COCO dataset at <https://www.immersivelimit.com/tutorials/create-coco-annotations-from-scratch>

## **Programming for Checkpoint 1 (due this Friday)**

- Modify the demo to create your own that is different than the default demo (due

## **Participation Assignment (due yesterday at noon)**

- What does your COCO demo do differently than the default demo?
- Show a sample output of your demo (can be a mock-up of what you want it to be)

# TASKS FOR NEXT WEEK

## Reading

- Read [this web page](#) up to and including section "What is Gradient-weighted Class Activation Mapping (Grad-CAM) and why would we use it?"
- Read [this web page](#) (also referenced by the article above) in its entirety, including section "Implementation of Grad Cam Using Keras". Try to follow along the coding example without actually implementing it.

## Participation Assignment (due November 3rd at noon)

Answer the following questions:

- What is Grad-CAM and why would you use it?
- What information does Grad-CAM give the developer or user of a machine learning system that is not otherwise available to those users?