



DSC 180 A01 - EXPLAINABLE AI DISCUSSION 9: Q2 PROJECTS

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ANNOUNCEMENTS

- Instructor's final office hour Friday 10-11am
- Replication Project Report due Dec 11th
- Q2 project proposal due Dec 11th

DONE: TASKS THIS WEEK

Topic: Evolution of XAI Algorithms

Reading

- Read the blog on “A Visual History of Interpretation for Image Recognition” at <https://gradio.app/blog/interpretation-history>
- Try out the demo at <http://interpretation-blog.gradiohub.com/>

Participation

Based on the blog, reflect on the Grad-CAM algorithm. Write a few sentences on how the Grad-CAM algorithm improved over the previously existing algorithms, and what the newer algorithms are better at than Grad-CAM.

REPLICATION PROJECT

The goal of the final project is to apply the Grad-CAM algorithm to the COCO dataset.

Report

- Summary of replication result
- Shortcomings
- Possible improvements
- Conclusions

Code

- Develop functional Grad-CAM code which uses the COCO data set
- Develop code that generates an analysis and figures for results
- [Use this code as a basis](#)

Q2 PROJECT PROPOSALS

- Proposals due next Friday (Dec 11)
- If you send me your draft I will give you feedback
- Today and in office hour on Friday at 10am:
 - Discussion of project plans and ideas

Q2 PROJECT ELEVATOR PITCHES

- Yesterday: elevator pitches for your Q2 projects were due
- Today: presentation of elevator pitches