

Week 6: Deep Learning & Computer Vision [March 8, 2021]

1. KEY QUESTIONS

- How can computer vision be used in the healthcare / biotech realm?
- How does computer vision relate to convolutional neural networks?
- Is computer vision technology advanced enough to be used in the medical field?
- Is there any open source computer vision technology that I can use for my own projects?

2. BRIEF AGENDA

- SPLIT CLASS
 - Part I: Guest Lecture by Nicolai Frost Jacobsen (Corti AI)
 - Part II:
 - Announcements
 - Guest Speaker Debrief
 - Google Cloud Vision Demo

3. TIMELINE

- **10:30am - 1 hour:** Recorded Zoom talk by Nicolai Frost Jacobsen (Corti AI)
Sejal will introduce Nicolai
- **6:00pm - 5 minutes:** Announcements / administrative things
Sejal leads, Sook-Hee oversees
- **6:05pm - 10 minutes:** Debrief guest lecture in pods, then shareout Sook-Hee facilitates group discussion, Sejal oversees
- **6:15pm - 10 minutes:** Introduce DeepFakes
Sook-Hee leads, Sejal oversees
- **6:25pm - 5 minutes:** Introduce Kaggle dataset
Sejal leads, Sook-Hee oversees
- **6:30pm - 10 minutes:** Google Cloud Vision API Playground Activity
Sejal introduces, Sook-Hee oversees
- **6:40pm - 20 minutes:** Google Cloud Vision Label Detection Demo with Fake and Real Faces
Sejal demos, Sook-Hee oversees
- **7:00pm - 7 minutes:** Verbally explain Google Quick Draw case study >> class dismissed
Sejal leads, Sook-Hee oversees