Lecture 0 - Logistics

21/04/2020

- Microsoft AI - human transcription 2016
- CNNs for image segmentation → explored
- Sighthound → CV → identify cars, image, location, make
- Games → quintessial human challenge
- Image captioning
- Extra slide - GANS (deep fakes) → explored.

Q: Helps get started; you will need to do more to become an expert (HOW?) (A1) → Answer this

- Mixture of implementation, theory
- Add omission of quizzes i.e. organise via grading, update GitHub
- Attend all recitations for implementation details
- Recitations on Friday (so do any prep work before)

Lecture Slides

- contain additional info that may not be presented in class - have to digest, understand; just because not covered ≠ not important

Homework

HW1-4 - Autograded part with deterministic sol. (pt. 1)
- Kaggle on leaderboard

can complete mandatory + bonus → skillful implementation of neural networks
(Pt 1.)

Pt 2 - complex problems on real world data
e.g. data processing / hyperparameter tuning

: Is it possible to submit to Kaggle after the deadline?

rse Project

pportunity to go beyond existing material
lot of guidance for projects;

Q: What do I do in place of project?

- very implementation heavy, large datasets ↙ Python
  ↘ PyTorch
- complete → AWS

HW0, recitation-0 this week

- Amazon AWS Tokens → can I get some
- A lot of time, work, effort; start assignments early
- 50% students get ≥A
- anyone getting an A in this course is technically ready for a deep learning job.