

1. (5 points) As you go through the lecture slides, you may notice some errors in them. As a part of this assignment, please note down and report all these errors using this google form: <https://forms.gle/UsXZ6NA9mVMZZ3jA8>. This will be done by individual students and not in a group (this is the only assignment Q in the entire course which will not be done as a group).
2. (5 points) As rapid progress continues in DL it is becoming increasingly hard to maintain the history in a beamer presentation. As a part of this assignment each group will make one module of the history in slides.com. Which module will your group work on? Well, add up the last digit of the roll numbers of your group members. If the last digit of the sum is x then you will work on Module x . If the last digit of the sum is 0 or 8 you will work on module 10 (no one will work on modules 8 and 11). We will look for the following features during evaluation:
 - You will follow the same styling, fonts and formatting as shown in this slide¹: https://slides.com/miteshkhapra-2/cs6910_lecture1
 - All timelines should be to scale. For example, the distance between the points for 1950 and 1960 must be the same as the difference between the points for 2000 and 2010. Similarly, the distance between the points for 1950 and 1960 (10 years) must be twice the distance between the points for 2000 and 2020 (20 years).
 - The animations, i.e., the order in which text, years, etc. appear on the timeline should be the same as that in the original slides.
 - Across all slides, the font style and size of the title, description and bullets on timeline should be the same.
 - All images should be in high definition and should not look pixelated or blurred (unlike some images in existing slides). If required, change the images on the current slides to something better (creativity will be rewarded). The images used in the current slides are available here: <https://drive.google.com/drive/folders/1P9XCiIxmanIHwsFIdcGb0tWfUQZ7SEn1?usp=sharing>. Use the images from this folder instead of directly cutting them from the pdf.
 - If any text or image is taken from a paper then provide the citation of the paper below the image in the following format: “<author names>: <Title of the paper>, <conference>, <year>.” This information is currently missing for many slides (refer to google scholar to get the citation). See slide 3 at the above URL for an example.

¹How to get same style and formatting as the above slides

- Make an account on slides.com
- Log into your account
- Now paste the above url in the browser
- The above slides will open and at the bottom you will see an icon for “Make a copy”. Click on that icon to create a copy of the slides in your account.
- Start editing

- If any text or image is taken from a website then mention the URL below the text (see slides 2 and 4 at the above URL for an example).
- All images should have a 2px border (you can do this on slides.com by clicking on the image and then selecting border from the right hand side menu)

Once done you can upload the URL of your slide on gradescope (TAs will conduct a session for this). The best slides for each module will be collated and put in my final presentation.

3. (10 points) There are certain topics missing in the history. Your job would be to research on these topics and create a history timeline for them similar to the one created for other topics (using the same slides.com format as for question 2). Once, again let x be the last digit of the sum of the last digits of your roll numbers. Let y be $x \bmod 3$. Your group will work on Topic y as defined below.

- Topic 0: Deep Generative Models (GANs, VAEs, Autoregressive Models, Applications)
- Topic 1: Automatic Speech Recognition and Generation (Pre Deep Learning to current era).
- Topic 2: Video Processing (classification, captioning, tracking, summarization, QA, etc.)

Instead of Topic y if you want to work on some other topic because it aligns better with your research then please check with me during the lecture (please **do not** drop an email).