

## CAP 4611 - Homework 1 - due Friday, August 25, 2023

NOTE: This homework also serves to *document student engagement*, which needs to be done during the first week of the classes.

This homework asks you to research on the internet “opinions” about the future of artificial intelligence and machine learning. You have to select them based on whether they are optimistic or pessimistic and briefly summarize them.

You can search for blog entries, articles, books, interviews, youtube videos, podcasts etc. A single tweet is not sufficient, unless it is a coherent series of tweets. Aim to find opinions where the authors are important, authoritative or influential in some way.

For each opinion provide: \* name of the author + why he is influential (eg. double Noble winner, 10M followers on TikTok, etc.) \* time and location of the publication \* link to the source \* summarize the opinion in three sentences

For instance:

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**Albert Einstein, double Nobel prize winner**

*June 1950*

<https://alber.teinst.ein>

Einstein believes that the newly emergent “computers” would one day be able to play passable chess. He estimates that it will take about one hundred years for this to be achieved. He believes that this represents the outmost limit of the capabilities of computers.

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In total you will have to summarize six opinions. Submit your answers in a text document.

### **P1: Opinions about the technical possibilities of AI/ML before 2010**

Research on the internet opinions dating from **before 2010** that make predictions about AI / machine learning. Choose the one that is most pessimistic about the **technical** possibilities of AI, and the one that is most optimistic.

### **P2. Opinions about the technical possibilities of AI/ML in 2023**

Repeat problem P1, this time for opinions published **after August 2022**.

**P3. Opinions about ethical considerations and social impact of AI/ML in 2023**

Repeat problem P2, but this time, instead of the technical possibilities, consider the **ethical, economical or social impact** of the predictions. Choose one that is highly pessimistic about these and one that is highly optimistic.