

Team Name: Spectre

Project Title: Course Transcript Summarizer/Aggregator

Project Title: Y.A.R.A.

Project Description:

To many students, there seems to be an all-pervasive force at work in their classroom that often disengage them from the materials when they need to focus the most. One of the most common challenges that students often face is that lectures are often presented in a manner that are hard to digest. Hence, it is not uncommon to miss important insights and key ideas.

Furthermore, the lengthy nature of the lectures are certainly not conducive to the short human attention span. These two forces frequently create a hole in their understanding of what's being presented that it's often a source of dissonance when it comes time for them to apply their understanding in the assignments or on exams.

In order to tackle this problem, we want to develop and deploy machine learning algorithms that can efficiently scan and analyze two important sources - lectures and textbooks of the course - to essentially pick out the key ideas, themes, and produce a summary. To further improve their comprehension of what they are learning, we want to aggregate a list of resources on certain topics and recommend those that are relevant (such as a snippet from Wikipedia). In addition, we also want to suggest relevant practice problems based on what they are learning, so that students can thoroughly test and refine their understanding of the subject.

Team Roster:

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Github URL: <https://github.com/matt19271/SeniorProject2020>

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Secondary Research:

- <https://www.coursera.org/>
- <https://ocw.mit.edu/index.html>
- <https://www.blinkist.com/>
- <https://www.khanacademy.org/>
- <https://www.edx.org/>
- <https://www.newser.com/>