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**Lesson Topic: Web Scraping Extended Learning**

**Date: 19 June 2024**



| **Learning Objectives (4 mins)**   1. Understand Web Scraping and its importance. 2. Understand the fundamentals of HTML to effectively navigate and extract data from web pages. 3. Learn how to use Python Libraries for parsing HTML and automating web scraping tasks. 4. Explore ethical considerations in web scraping. 5. Combine web scraping with Natural Language Processing (NLP) techniques. |
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| **Introduction (2 mins)**   * Explain to students that the intention of this extended learning session is to provide them with additional tools for more advanced analysis. * Use a poll to gauge student exposure to Web Scraping. |
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| **Lesson body - Approaches and Activities (45 + 45 mins)**   * Go over the slide show presentation, thoroughly explaining the points presented on each slide, providing more context, and expanding on terminology used (45 minutes) * Notebook walkthrough. There are 2 examples to go through. The pace should be slow and each step in the code should be explained very clearly (45 mins) |
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| **Checking for Understanding (5 mins)**   * Observe emoji reactions. * Pause for questions. * Open the floor to questions. |
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| **Conclusion (4 mins)**   * Revisit objectives and unpack how each one was met during the lecture. |
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| **Review of Lesson Timeline (Total 120 mins)**   * Learning Objectives - 4 mins * Introduction - 2 mins * Lesson body -Approaches and Activities - 45 + 45 mins * Break - 15 mins * Checking for Understanding - 5 mins * Conclusion - 4 mins |
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