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**Lesson Topic: Week 15 Tutorial**

**Date: 19 June 2024**



| **Learning Objectives (4 mins)**   1. Extend our understanding of sentiment analysis using more advanced machine learning models 2. Understanding Sequence Modeling 3. Explore Recurrent Neural Networks (RNNs) 4. Set the foundation for understanding the architecture that underlies models such as the GPT models |
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| **Introduction (2 mins)**   * Explain to students that the intention of this tutorial is to provide them with additional tools for more advanced NLP analysis. * Explain to students we are setting the foundation for understanding LLMs |
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| **Lesson body - Approaches and Activities (45 + 45 mins)**   * Notebook walkthroughs. There are 2 examples to go through. Advanced Sentiment Analysis first and RNN & LSTM second (more time dedicated to the latter). * The pace should be slow and each step in the code should be explained very clearly (45 mins + 45 mins with break in between) |
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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 tutorial. |
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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 between 45 mins walkthroughs * Checking for Understanding - 5 mins * Conclusion - 4 mins |
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