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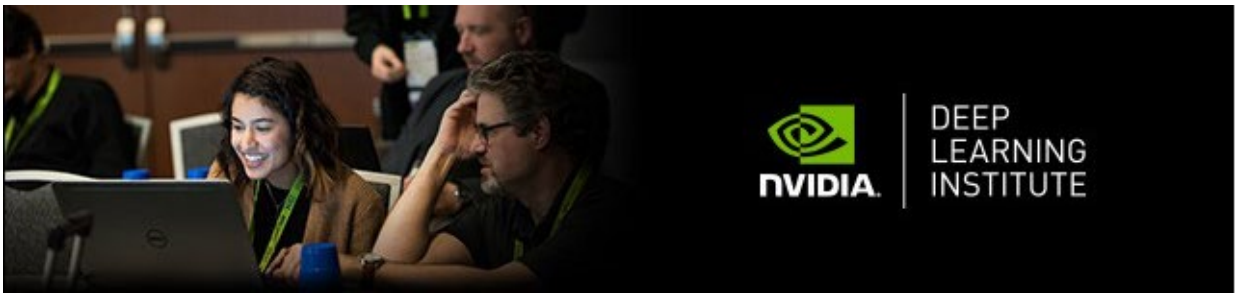
To: AI-INITIATIVE-L@LISTS.UFL.EDU
Subject: NVIDIA DLI Workshop: Building Transformer-Based Natural Language Processing Applications
Date: Wednesday, June 8, 2022 11:34:13 AM



NVIDIA DLI Workshop: Building Transformer-Based Natural Language Processing Applications

Tuesday, June 21, 2022, 9:00 AM – 5:00PM
Location: Virtual via Zoom
Fee: Free!
Registration required: https://ufl.zoom.us/meeting/register/tJUpc-Crpj8vHdIYCQS_KSIFHATboWtDmuWR

Applications for natural language processing (NLP) have exploded in the past decade. With the proliferation of AI assistants and organizations infusing their businesses with more interactive human-machine experiences, understanding how NLP techniques can be used to manipulate, analyze, and generate text-based data is essential. Modern techniques can capture the nuance, context, and sophistication of language, just as humans do. And when designed correctly, developers can use these techniques to build powerful NLP applications that provide natural and seamless human-computer interactions within chatbots, AI voice agents, and more.

Deep learning models have gained widespread popularity for NLP because of their ability to accurately generalize over a range of contexts and languages. Transformer-based models, such as Bidirectional Encoder Representations from Transformers (BERT), have revolutionized NLP by offering accuracy comparable to human baselines on benchmarks likeSQuAD for question-answer, entity recognition, intent recognition, sentiment analysis, and more.

In this workshop, you'll learn how to use Transformer-based natural language processing models for text classification tasks, such as categorizing documents. You'll also learn how to leverage Transformer-based models for named-entity recognition (NER) tasks and how to analyze various model features, constraints, and characteristics to determine which model is best suited for a particular use case based on metrics, domain specificity, and available resources.

See the **DLI Datasheet** for full workshop details, learning objectives and general schedule.

Prerequisites: An understanding of fundamental programming concepts in Python such as

functions, loops, dictionaries, and arrays. Suggested materials to satisfy prerequisites: **Codecademy Python course**.

Certificate: Upon successful completion of the assessment, participants will receive an NVIDIA DLI certificate to recognize their subject matter competency and support professional career growth.

To register, go to https://ufl.zoom.us/meeting/register/tJUpc-Crpj8vHdIYCQS_KSIFHATboWtDmuWR

Workshop provided by Research Computing. Any questions, please contact Ying Zhang at yingz@ufl.edu.

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"Climb the mountains and get their good tidings. Nature's peace will flow into you as sunshine flows into trees. The winds will blow their own freshness into you, and the storms their energy, while cares will drop off like autumn leaves." *John Muir 1870*