
KEYNOTE TALKS

Natural Language Processing in the Era of Artificial Intelligence: The Wind of Change is Blowing

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Natural Language Processing (NLP) is currently undergoing profound and unprecedented transformations. While it has long been acknowledged that NLP technologies are inherently imperfect and far from achieving complete accuracy, recent advancements have significantly reshaped the field of language and translation technologies. First, Deep Learning methods, and now Large Language Models (LLMs), have revolutionised the field and captured widespread attention across both academia and industry.

This entertaining and easy-to-follow talk sheds light on the future of NLP in the era of Artificial Intelligence (AI).

The talk begins by outlining the history of NLP and Machine Translation, reviewing advances driven by Deep Learning and LLMs. The speaker provides a critical evaluation of the employment of LLMs in NLP and Machine Translation focusing on his recent comparative studies involving LLMs, traditional Deep Learning architectures, and rule-based methodologies across selected NLP tasks and applications.

Finally, the presentation concludes with a discussion on the future of NLP. While the speaker does not claim prophetic insight, he draws on his extensive experience and uses linguistic intelligence as a benchmark to offer predictions about how artificial intelligence may evolve relative to human intelligence.