

REGINNA 4.0 Second Summer School: Diving into high-innovation potential areas: Entrepreneurship and Business Strategies related to Industry 4.0 and Nanotechnology

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## Introduction to Deep Learning and Nanotechnology Applications

*Thursday, 7 September 2023 13:30 (1h 30m)*

1. Paradigm of AI (Current Advancements): Slides: 15 minutes
2. How to think about neural networks (Slides): 15 minutes
3. Images = Matrices (+ what is Convolution?): 20 minutes
4. Building your first neural network: 20 minutes (Hands-On)
5. Can your network identify simple images?: 20 minutes (Hands-On)
6. Complex Network == Complex Tasks: 30 minutes (Hands-On)

**Presenter:** BHATTACHARYYA, Saptashwa (University of Nova Gorica)

**Session Classification:** main session 07/09/23