The IEEE EMBS Student Chapter, Magdeburg in association with INKA-Chair for Catheter Technologies and Image Guided Therapies presents the first Summer School for Exponential Technology based Innovation Generation. This year we focus on Deep Learning and Artificial Intelligence. The course includes Biomedical Signal Processing, IT security, Ethics and how to use this knowledge to generate Sustainable, Innovative and Customer Centric solutions.

Each module will cover
- Introduction to the topic
- Hands-on sessions with real examples
- Tricks of the trade

Module I: Biomedical Signal Processing
Requirements: Basics of Signal Processing
Matlab programming
Personal Laptop

Module II: Deep Learning
Requirements: Basics of programming (Matlab, Python, etc.)
Personal Laptop

Module III: Artificial Intelligence
Requirements: Basics of programming (Matlab, Python, etc.)
Personal Laptop

Module IV: IT Security and Ethics
Requirements: Basics of Health Information Security
Personal Laptop

Module V: Innovation Generation
Requirements: Basic knowledge of Value Proposition Canvas
Basic knowledge of innovation generation

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