Måndag, 14 april

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| 09:30 | Course introduction. What is AI? (I. Petrov) |
| 10:15 | How is AI used in healthcare? (B. Bozoky) |
| 11:05 | Types of AI/ML analysis. Clustering vs prediction. Regression vs classification. (I. Petrov) |
| 12:00 | Lunch break |
| 13:00 | Working with medical data. Preparing data for AI. (I. Petrov) |
| 14:00 | Decision trees. Random forests. Expert systems. (I. Petrov) |
| 14:45 | Linear regression. Logistic regression. (I. Petrov) |
| 15:30-16:00 | Quiz |

Tisdag, 15 april

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| 09:30 | Introduction to neural networks: terminology, architectures, advantages and disadvantages. (I. Petrov) |
| 10:30 | How AI “sees” images: convolutional neural networks. Segmentation, entity recognition. Popular medical imaging AI toolsets (I. Petrov) |
| 11:30 | Anomaly detection. Generative models: GANs, autoencoders. (I. Petrov) |
| 12:00 | Lunch break. |
| 13:00 | Natural language processing (NLP). Large language models: GPT, BERT, Gemini (I. Petrov) |
| 14:15 | AI and ethics. Responsible AI. Role of human in AI-assisted clinical/research environment (I. Petrov) |
| 15:30-16:00 | Quiz |