



Visiopharm Academy

Deep Learning - Beginners (Author AI)

Course attendees must have basic knowledge of Visiopharm Software and APP development, e.g. having attended our Academy Class: *"Image Analysis for Beginners"*. If in doubt, please contact training@visiopharm.com for more information.

Day 1

- 09:00** **Introduction**
Lecture & Exercise
- Introduction to the course format and AI
 - Exercise in how to use the build-in AI APPs
- 10:30** **How to setup and train an AI APP**
Lecture & Exercise
- Detailed walk-through of the AI related settings in the Author view, including Deep Learning frameworks, loss function, probability slider
 - Exercise: How to train an AI APP
- 12:00** **Lunch**
- 13:00** **How to adjust AI Author Parameters**
Lecture & Exercise
- Advanced Deep Learning settings: Inputs, Learning rate, Data Augmentation
- 13:30** **Best Labeling Strategy**
Lecture & Exercise
- How to arrange your training data
 - Manual annotations vs Machine learning
 - Adding new training data
- 15:00** **Evaluation APP performance**
Lecture & Exercise
- Introduction to different relevant metrics
- 15:30** **Best Practices working with AI**
Lecture, Q&A
- 16:00** **End of day 1**