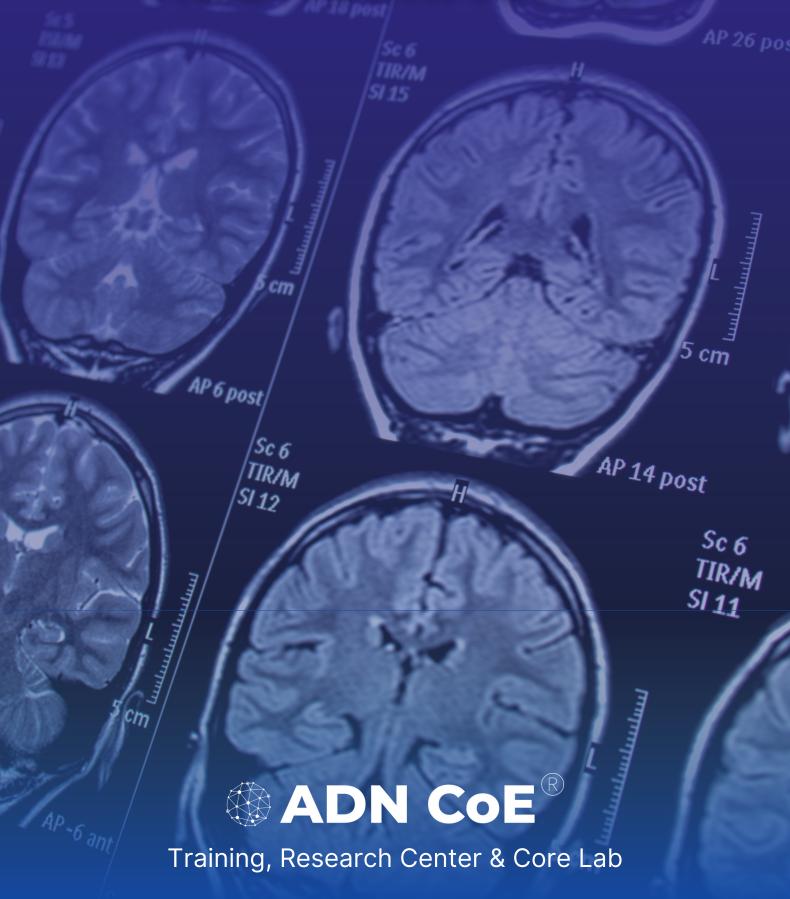
MACHINE LEARNING IN NEUROIMAGING



INFORMATION BOOKLET

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DAY 1

Al Foundations & Neuroimaging Data Science

Time	Session	Format
09:00 - 09:30	Welcome & Course Overview	Opening Remarks
09:30 – 10:15	Fundamentals of AI & Machine Learning in Medicine	Lecture
10:15 – 11:00	Neuroimaging Modalities & Data Characteristics (MRI, fMRI, DTI, PET)	Lecture
11:00 – 11:15	Coffee Break	Networking
11:15 – 12:00	Data Preprocessing & Feature Extraction in Neuroimaging	Lecture
12:00 – 13:00	Live in Box: End-to-End Data Pipeline Demonstration	Live in Box
13:00 – 14:00	Lunch Break	Networking
14:00 – 15:00	Introduction to ML Frameworks (Nilearn, PyTorch, TensorFlow)	Lecture
15:00 – 16:00	Simulation Workshop: Neuroimaging Data Cleaning & Visualization	Simulation
16:00 – 16:45	Ethical, Regulatory & Interpretability Aspects of Al in Healthcare	Lecture
16:45 – 17:00	Wrap-Up & Open Discussion	Moderation



DAY 2

Clinical Applications & Model Deployment

Time	Session	Format
09:00 - 09:30	Recap & Key Concepts	Discussion
09:30 – 10:15	Machine Learning Algorithms for Neuroimaging (Supervised & Unsupervised)	Lecture
10:15 – 11:00	Deep Learning for Brain Imaging (CNNs, Autoencoders, 3D Analysis)	Lecture
11:00 – 11:15	Coffee Break	Networking
11:15 – 12:15	Live in Box: Model Training & Validation with Real MRI Dataset	Live in Box
12:15 – 13:00	Model Evaluation & Performance Metrics (ROC, AUC, Precision–Recall)	Lecture
13:00 – 14:00	Lunch Break	Networking
14:00 – 15:30	Simulation Workshop: Building a Predictive Model for Brain Disorder Classification	Simulation
15:30 – 16:15	Clinical Applications: Al in Stroke, Tumors & Neurodegenerative Diseases	Lecture
15:00 – 16:00	Deep Learning in Neuroimaging: CNNs & 3D Image Processing	Lecture
16:15 – 16:45	Panel Discussion: The Future of Al in Neuroimaging	Discussion
16:45 – 17:00	Certification & Closing Remarks	Wrap up



VENUE

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S C A N



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Useful Information



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Training Location

ADN CoE Training, Research Center & Core Lab

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