

MACHINE LEARNING IN NEUROIMAGING



Training, Research Center & Core Lab

INFORMATION BOOKLET

The publishing rights of this book belong to ADN CoE Education Consultancy and Organization Limited Company. Partially or fully copying by any means, photocopying, transcription, printing, or any other reproduction without written permission and proper citation is strictly prohibited.

Copyright © 2023

1. Edition, December, 2023

Publisher and Chief Editor

Nazire ÇAVUŞ

Printing House

SEDA OZALIT

Altunizade, Kisikli Cd. No:49, 34662 Üsküdar/İstanbul



ADN CoE®

Please note that this training is specialized procedural trainings provided by ADN CoE. This training is accredited by Ethical Medtech and EACCME and it is independent of any other training offered by relevant device company.

WARNING

Medical information is constantly evolving and being updated. Standard safety practices should be observed, and it should be acknowledged that changes in treatments and drug applications may be necessary in light of new research and clinical experiences.

Readers are advised to verify the latest product information, dosage, administration methods, and contraindications provided by the drug's manufacturer regarding medications. Determining the best treatment and the correct drugs and dosages for each patient is the responsibility of the attending physician. The publisher and editors are not responsible for any harm or damage to patients or equipment that may arise from the use of this publication.

Company Name	ADN CoE EĞİTİM DANIŞMANLIK VE ORGANİZASYON LIMITED ŞİRKETİ
Address	İnkılap Mahallesi Dr. Adnan Büyükdeniz Caddesi No:13, A Blok, K:3/7 34768 Ümraniye, İstanbul / Türkiye
Telephone	+90 530 035 96 39
E-mail	trainings@adncoe.com
Website	www.adncoe.com
VAT Number	0081750793 Alemdağ Tax Office



ADN CoE®

DAY 1

AI 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 AI 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: AI 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 AI in Neuroimaging	Discussion
16:45 – 17:00	Certification & Closing Remarks	Wrap up

VENUE

ADN CoE®

Training, Research Center & Core Lab

SCAN



İnkılap Mahallesi Dr. Adnan Büyükdeniz
Caddesi No:13, A Blok, K:3 D:7, 34768
Ümraniye, İstanbul / Türkiye

Contact Information: +90 530 035 96 39



ADN CoE®



ACCOMMODATION

CROWNE PLAZA ISTANBUL ORYAPARK

The Intercontinental Hotels Group is one of the most important establishment that set out to become the first choice of hotel guests and investors and to guide the hospitality industry with over 300 years of experience.

Intercontinental Hotels Group, that is with its prestigious reputation in the international arena, offers unique accommodation experiences with its 767 thousand rooms in more than 5 thousand hotels.

IHG aims to achieve sustainable growth by investing in the future growth of its brands by following a disciplined approach to capital allocation. IHG, which has adopted a guest-oriented service approach as a corporate culture, is active in nearly 100 countries.

HOTEL CANCELLATION POLICY

If you wish to cancel or modify your hotel booking, please do not contact the hotel directly, send us a notification by email at: info@adncenterofexcellence.com Cancellations received earlier than 10 days before the beginning of the course are eligible for a full hotel refund. After that deadline, a one-night deposit will be deducted from your refund.

BOOKING POLICY

The deadline for hotel booking is 10 days before the course. Unfortunately, ADN CoE cannot guarantee room availability past that deadline. Bookings are made on a first-come, first-served basis. In case of non-availability, we shall do our best to re-accommodate you in a nearby hotel of equal standard.



ADN CoE®

Useful Information



Transfer

The transfer vehicle will accompany you during the training.



Training Location

ADN CoE Training, Research Center & Core Lab

İnkılap Mahallesi Dr. Adnan Büyükdeniz Caddesi No:13, A Blok,
K:3 D:7, 34768 Ümraniye, İstanbul / Türkiye



Contact Information

+90 530 035 96 39



Dress Code

Business Casual - Smart Casual



ADN CoE®

