



5 Courses

Data mining of Clinical  
Databases - CDSS 1

Deep learning in Electronic  
Health Records - CDSS 2

Explainable deep learning  
models for healthcare -  
CDSS 3

Clinical Decision Support  
Systems - CDSS 4

Capstone Assignment - CDSS  
5



Dec 11, 2025

**Muzammil Khan**

has successfully completed the online Specialization

# Informed Clinical Decision Making using Deep Learning

This specialization was for learners with experience in programming interested in expanding their skills in applying deep learning in Electronic Health Records and with a focus on how to translate their models into Clinical Decision Support Systems. The main areas explored were: Data mining of Clinical Databases: Ethics, MIMIC III database, International Classification of Disease System and definition of common clinical outcomes. Deep learning in Electronic Health Records: From descriptive analytics to predictive analytics Explainable deep learning models for healthcare applications: What it is and why it is needed Clinical Decision Support Systems: Generalisation, bias, 'fairness', clinical usefulness and privacy of artificial intelligence algorithms.

Fani Deligianni  
PhD, MSc, MSc, MEng  
Lecturer at School of  
Computing Science,  
Glasgow University

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