

Syed Babar Ali School of Science and Engineering, LUMS

Conversations on Deep Learning

by

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Abstract: There will be two lectures covering topics in Machine Learning and Deep Learning. Each lecture will be 75 minutes in duration followed by 15 minutes of Q&A. A brief outline is given below:

Lecture 1 – Topics in Machine Learning

- Supervised Learning, Unsupervised Learning, and Reinforcement Learning
- Regression
- Classification
- Regularization

Lecture 2 – Topics in Deep Learning

- Introduction to Neural Network
- Backpropagation
- Enhancing Neural Networks
- Convolutional Neural Networks

Biography: Hassan Mohy-ud-Din is the Director of Clinical and Translational Imaging Lab and an Assistant Professor at the LUMS School of Science and Engineering. He completed his PhD and MSE in Electrical and Computer Engineering (ECE) and MA in Applied Mathematics and Statistics (AMS) from Johns Hopkins University (JHU) on ECE-JHU fellowship (2009 – 2015). From 2015 – 2017 he was a postdoctoral associate in the Department of Radiology and Biomedical Imaging at the Yale School of Medicine. From 2017 – 2018 he was a Clinical Research Scientist at Shaukat Khanum Memorial Cancer Hospital and Research Center. His research lies at the intersection of Applied Mathematics and Medical Imaging. His work on dynamic cardiac PET imaging won the 2014 SNMMI Bradley-Alavi fellowship and the 2014 SIAM student award. He has published his work in leading scientific journals and presented it at various conferences and universities around the world. He also carries a university teaching experience of over 12 years (UET Lahore, SBASSE LUMS, and Johns Hopkins University).

Lab Website – <https://hmdlums.com>

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