

Beginning Artificial Intelligence Through Neuroscience (Synchronous E-learning)



Learn Fundamental AI Concepts & Acquire Basic Coding Skills to Construct Simple AI Systems

- Course TGS Number: TGS-2020513214
- SFC-Eligible

Saturdays, 16 & 23 September 2023 9am - 12.30pm

Conducted via Zoom | Register by 4 Sep

Neuroscience helped inspire deep learning, which is the basis of AI technologies such as speech recognition by personal digital assistants and face recognition for access control, and is being developed for applications such as assisted interpretation of medical images and scene analysis by self-driving cars.

Organised by the Department of Physiology, NUS Yong Loo Lin School of Medicine, this course introduces the relevant neuroscience, including the function and connectivity of the cerebral cortex, which is used to motivate the architecture of deep learning artificial neural networks. Participants will learn the mathematical and statistical concepts needed to fit models to data; beginning with simple examples such as linear regression and binary classification, followed by the application of these principles to train deep learning models. We will briefly indicate their extension to newer models, such as the transformers that underlie large language models like ChatGPT.

There will be opportunities for participants to experience hands-on coding with some common AI tools. The outlook for and potential pitfalls of AI will also be examined and discussed.

Who Should Attend

Anyone who is interested in gaining a basic understanding of AI are welcome to attend.

From Our Past Participants

“This course takes an interestingly biological approach to AI and deep learning. I listened in awe as the lecturer compared and contrasted the human brain with artificial neural networks.”

Dr Mohamed Baisal, Shifa Clinic and Surgery

“This course provided a clear and concise overview on how the AI deep learning technology is based on our understanding of neuroscience. The practical sessions were engaging and fun!”

Jocelyn Chew, NUS

Learn More

Click Here or Scan the QR Code to
Visit our Course Webpage

Send An Enquiry

Contact us at nusmedcet@nus.edu.sg

