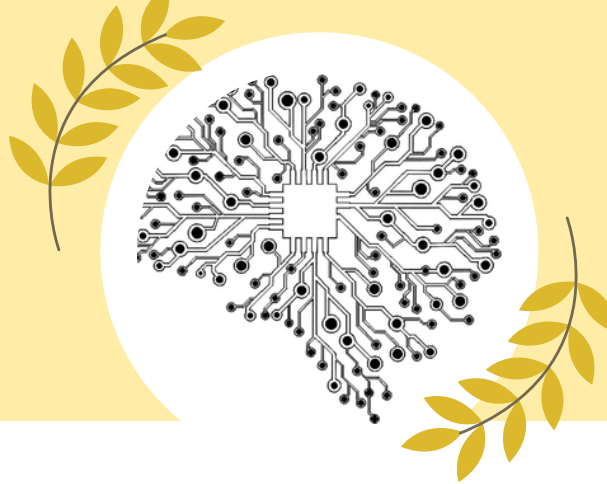# IVIC 2023 WORKSHOP

Introduction to Deep Learning with Google Colab

Date: 17 November 2023
Platform: Online (Zoom)
Time: 8.30 - 13.00

SYNOPSIS

"Dive into the enthralling world of Deep Learning with our 4-hour workshop tailored for beginners. Unravel complex AI concepts with simple analogies and hands-on experience in Google Colab. Explore the visual magic of Convolutional Neural Networks (CNNs) and the memory prowess of Long Short-Term Memory (LSTM) Networks. Understand, classify, predict, and delve deeper into real-world AI applications. All you need is a laptop, internet, and curiosity. No installations, just pure learning. By the end, you'll have a foundational understanding of deep learning and practical experience, setting the stage for your AI journey."

LEARNING OUTCOME

- **Grasp Fundamental Concepts**: Understand the foundational principles of Deep Learning, distinguishing between key terms and structures such as CNNs and LSTMs.
- **Hands-on Proficiency with Google Colab**: Navigate, create, and execute deep learning exercises in Google Colab, gaining practical experience in real-time AI tasks.
- **Application Insight**: Recognize real-world applications of deep learning, identify its potential and limitations, and derive inspiration for future exploration and projects.

TRAINER

Prof. Ts. Dr. Teddy Surya Gunawan

Professor, Electrical and Computer Engineering Department, IIUM

PROGRAMS

8.30 - 9.00 am
Registration

9.00 - 10.00 am
Introduction to Deep Learning and Setting Up Google Colab

10.00 - 11.00
Exploring Convolutional Neural Networks (CNN)

11.00-12.00
Journey into Long Short-Term Memory (LSTM) Networks

12.00-12.30
Exploring More with Deep Learning

12.30-13.00
Question and Answer

REQUIREMENTS

- Laptop with Internet access
- Google account for accessing Google Colab
- No prior installation is necessary