



澳門生產力暨科技轉移中心
CENTRO DE PRODUTIVIDADE E TRANSFERÊNCIA DE TECNOLOGIA DE MACAU
MACAU PRODUCTIVITY AND TECHNOLOGY TRANSFER CENTER

優異證書

CERTIFICATE OF MERIT

茲證明學員

This is to certify that

梁家安 LEONG, KA ON

以優良成績通過課程評核

has superior achievement in the course

數據科學與人工智能：自然語言處理

DATA SCIENCE AND ARTIFICIAL INTELLIGENCE: NATURAL LANGUAGE
PROCESSING

發出日期

Date of Issue

編號

Ref. No.

03-Jul-2023

140099/CM613-05-2023-C

關治平 理事長

Kuan Chan, Victoria Alexa, Director-General



Course Title		課程名稱
Data Science and Artificial Intelligence: Natural Language Processing		數據科學與人工智能：自然語言處理
Objective		目標
<p>"Natural Language Processing" (NLP) focuses on how computers understand natural language. Search Engines, News Recommendations and Language Translation applications are all Artificial Intelligence products with Natural Language Processing technology as the core. CPTTM specially designed this course to popularize the application of Artificial Intelligence technologies in Natural Language Processing.</p> <p>Main content including:</p> <ul style="list-style-type: none"> • Introduction of the core concepts, basics and application scenarios of Deep Learning and Natural Language Processing • Practice Natural Language Processing with the Deep Learning framework TensorFlow 		<p>「自然語言處理 (Natural Language Processing)」技術關注電腦如何理解自然語言，搜索引擎、新聞推薦及語言翻譯等都是自然語言處理技術為核心的人工智能產品。中心特設此課程以普及人工智能於自然語言處理方面的應用。</p> <p>課程主要內容：</p> <ul style="list-style-type: none"> • 介紹深度學習與自然語言處理核心概念、基礎和應用場景 • 透過深度學習框架TensorFlow 實踐自然語言處理
Content		內容
<ul style="list-style-type: none"> • Introduction to NLP, Machine Learning • Introduction to Neural Network, Deep Learning • TensorFlow Framework and Syntax • Word Vectors and Embedding • Language Model and Recurrent Neural Network (RNN) • Neural Machine Translation & Sequence to Sequence Model • Attention Model and Transformers • Online resources and Transfer Learning 		<ul style="list-style-type: none"> • 機器學習、自然語言處理介紹 • 神經網絡、深度學習介紹 • TensorFlow框架和語法 • 詞向量和詞嵌入 • 語言模型和遞歸神經網絡 (RNN) • 神經機器翻譯和 Seq2Seq 模型 • 注意力模型和Transformers • 線上資源和轉移學習
Duration & Course Period		學時及上課日期
24 hours (May 6, 2023 - May 28, 2023)		24小時 (2023年5月6日 - 2023年5月28日)
Language of instruction		授課語言
Cantonese (supplemented with English)		廣東話 (輔以英語)

~ For definitions of the types of Certificates, please refer to this website 有關證書種類的定義，請參閱這網址：<http://www.cpttm.org.mo/training> ~

