電子計算系 DEPARTMENT OF COMPUTING 香港恒生大學 THE HANG SENG UNIVERSITY OF HON<u>G KONG</u>______



Artifical Intelligence

Bidda security

Big day nanaganan

Master of Science in Data Science and Artificial Intelligence (MSC-DSAI) 數據科學及人工智能理學碩士

Data science

Cloud technology

Marketing analytics

Machine learning

Master of Science in Data Science and Artificial Intelligence 數據科學及人工智能 理學碩士

The convergence of Artificial Intelligence (AI) and Big Data technologies is changing the way we make decisions. Disruptive changes can be seen everywhere. In this new and exciting Master Degree programme, students will learn to master the latest technologies in data science and machine learning and their real world applications. The programme is designed for students from a wide range of disciplines with interests in applied AI technologies.

大數據科技,結合人工智能(AI)技術,正在改寫我們的決策方式。新科技帶來的顛覆性變化比目皆是。這門嶄新而全面的碩士課程是為來自不同背景、對新一代大數據和AI應用有興趣的學生而設計。在課程中,學生將會掌握大數據和機器學習相關的最新知識,以及它們的應用實例,讓學生在數據科學和AI時代的各行各業中領先一步。

Key Features 課程特色

- Integrating latest developments in data science and artificial intelligence 課程涵蓋「大數據」與「人工智能」兩大熱點,畢業即可踏入高薪行業
- Interdisciplinary teaching team consisting of experts from computer science, statistics, as well as information management 由電腦科學、統計學和信息管理等範疇的專家組成跨學科的課程團隊
- Well-known companies from the industry serving as programme consultants and providing strong teaching supports 由業界知名商業機構擔任課程顧問及提供強大課程支援

Target Students 課程對象

- People who perform big data analytics in their job duties 從事大數據分析的人員
- People taking part in AI or machine learning projects 從事或管理人工智能及機器學習相關項目的人員
- People interested in data science and AI, and aspired to pursue a career in related areas 對數據科學及人工智能感興趣,並有志於從事相關行業的人士

Career Prospect 就業前景

Fueled by the recent advances in technologies, the global demand for data science and AI talents is increasing exponentially. Some job titles that are in high demand in Hong Kong as well as globally include: 随着相關科技之急速發展,近年香港以至全球對於數據科學及人工智能的人才需求出現幾何級數的增長。現時,多個 專業都缺乏相關人才,其中包括:

- Data scientist 數據科學家
- Big Data developer 大數據開發人員
- Big Data analyst 大數據分析師
- Al developer / architect 人工智能開發人員 / 架構師
- AI scientist / researcher 人工智能科學家 / 研究員

Reference Salary 薪酬參考



Professional Recognition 專業認可

The programme facilitates students to obtain professional recognitions, such as: 課程有助學生獲得以下專業資格:

- Certified Professionals For Apache projects (CPFA)
- Google Professional Data Engineer
- AWS Certified Big Data Specialty
- SAS[®] Global Certification Program
- Microsoft Certifications (Data Engineer/Data Scientist/AI Engineer)

Programme Facilities 課程設施

Students have a chance to use the following state-of-the-art computing laboratories and facilities. 學生可以使用下列多個尖端電腦實驗室和設施。

Research and Development Centres 研發中心



Deep Learning and Cognitive Computing Centre (DLC³) 深度學習與認知計算中心



Big Data Intelligence Centre (BDIC) 大數據智能中心

Laboratory Facilities 實驗室設施



Decision Sciences Technology Laboratory 決策科學科技實驗室



Applied Statistics Laboratory 應用統計實驗室



Virtual Reality and Big Data Analytics Laboratory 虛擬實境及大數據分析研究實驗室

Industry Support 業界支持

The programme receives strong supports from well-known companies in the industry 本課程得到業界知名機構在不同範疇提供支援

- Curriculum design consultants: the curriculum is designed in consultation with industrial partners, to make sure the course contents meet the fast-changing industrial demand
 課程設計顧問:本課程的設計參考來自業界顧問提供的意見,以確保內容緊貼最新形勢和業界需求
- Software systems support: state-of-the-art software platforms and computing resources are available to our students and supported by our industrial partners
 軟件系統支援:本課程得到業界提供最新的相關軟件系統,以及電腦學習資源上的支援
- Teaching support: some of the industrial partners, including IBM, provide active and practical teaching support
 教學支援:本課程得到部分商業夥伴(包括IBM)提供實質的教學支援

Interdisciplinary Teaching Team 跨學科教學團隊

師資	Profiles
陳 偉 光教授 澳大利亞新南威爾斯大學博士	Samuel CHAN, PhD (UNSW) Professor
自然語言處理,人工智能	Natural Language Processing, Artificial Intelligence
許溢宏教授美國維珍尼亞理工大學博士	Yer Van HUI, PhD (Virginia Tech) Professor
商業分析·運營管理	Business Analytics, Operations Management
梁志堅教授 美國維珍尼亞理工大學博士	Lawrence LEUNG, PhD (Virginia Tech) Professor
供應鏈管理,空運物流管理	Supply Chain Management, Air Cargo Logistics Management
潘忠强教授加拿大多倫多大學博士	Chung Keung POON, PhD (UToronto) Professor
數據挖掘·信息檢索	Data Mining, Information Retrieval
蔡少佳 副教授 香港浸會大學博士	Siu Kai CHOY, PhD (HKBU) Associate Professor
機器學習,模式識別,圖像處理	Machine Learning, Pattern Recognition, Image Processing
何道森 副教授 香港理工大學博士	George HO, PhD (HKPolyU) Associate Professor
大數據分析,物聯網應用,商業智慧	Big Data Analytics, Internet-of-Things, Business Intelligence
林樹仁 副教授 香港城市大學博士 機器學習,數據挖掘,圖像處理	Shu Yan LAM, PhD (HKCityU) Associate Professor Machine Learning, Data Mining, Image Processing
劉海 副教授 課程主任 香港城市大學博士	Hai LIU, PhD (HKCityU) Associate Professor, Programme Director
機械人網絡,雲計算,群體智能	Robotic Networks, Cloud Computing, Swarm Intelligence
巫耀榮 副教授 香港科技大學博士	Daniel MO, PhD (HKUST) Associate Professor
物流系統優化,智慧系統設計	Logistics Systems Optimization, Design of Intelligent Systems
王越 副教授 香港科技大學博士	Yue WANG, PhD (HKUST) Associate Professor
機器學習,自然語言處理	Machine Learning, Natural Language Processing
黃惠虹 副教授 香港中文大學博士	Collin WONG, PhD (CUHK) Associate Professor
知識管理和決策支援系統	Knowledge Management and Decision Support System
黃彥璋 副教授 香港大學博士	Eugene WONG, PhD (HKU) Associate Professor
運籌學和優化,人工智能,虛擬實境	Operations Research and Optimisation, Artificial Intelligence, Virtual Reality
陳謝天助理教授香港中文大學博士	Tse Tin CHAN, David, PhD (CUHK) Assistant Professor
無線通信與網絡,機器學習	Wireless Communications and Networking, Machine Learning
朱振輝 助理教授 香港中文大學博士	Carlin CHU, PhD (CUHK) Assistant Professor
數据挖掘與人工智能,金融預測模型	Data Mining and Artificial Intelligence, Financial predictive modelling
侯云 助理教授 英國倫敦帝國學院博士	Yun HOU, Aileen, PhD (Imp Lond) Assistant Professor
車聯網,智慧城市,無線網絡優化	V2X, Smart City, Wireless Network Optimization
廖健壹 助理教授 香港理工大學博士	Kent LIU, PhD (HKPolyU) Assistant Professor
機器學習・縱向數據分析	Machine Learning, Longitudinal Data Analysis
馬裕得 助理教授 美國普渡大學博士	Chris MA, PhD (Purdue) Assistant Professor
網絡物理系統安全和私隱	Security and Privacy of Cyber Physical Systems
馬凱琳 助理教授 香港理工大學博士	Helen MA, PhD (HKPolyU) Assistant Professor
大數據與機器學習交通網絡分析	Big Data and Machine Learning in Transportation Network Analysis
胡鎮浩助理教授香港理工大學博士	Jack WU, PhD (HKPolyU) Assistant Professor
工業物聯網,智慧物流與製造	Industrial Internet-of Things, Smart Logistics and Manufacturing
陳志江 高級講師 香港中文大學博士	Chi Kong CHAN, PhD (CUHK) Senior Lecturer
人工智能 (多智能體系統),博弈論	Multi-Agent Systems, Game Theory
何健漢 講師 英國薩里大學博士	Roy HO, PhD (Surrey) Lecturer
數據科學,人工智能,區塊鏈和加密貨幣	Data Science, Artificial Intelligence, Blockchain and Cryptocurrency

Programme Details 課程詳情

Programme Duration 學制

- One year (Full-time)
 一年(全日制)
- Two years (Part-time)
 二年(兼讀制)

Study Plan 修讀計劃

Medium of Instruction 授課語言

● English 英語



* Electives to be offered will be subject to the curriculum plan of each academic year * 選修科目將取決於該學年的課程計劃

Graduation Requirements 學位授予

Complete and obtain a Grade D or above in 8 modules (24 credits), including five core modules and three major elective modules; and obtain a minimum cumulative GPA of 2.0 完成8個科目(包括5個必修科目及3個選修科目,共24學分)並於每科取得D級或以上成績,及累積平均積分點達到 2.0或以上。

Admission Requirements 入學要求

- A bachelor's degree in science, technology, engineering, business, social science or related disciplines from a recognized university; and
 - 大學理科、工科、商科、社會科學或相關學科的本科學歷或同等學歷、及
- Fulfilment of one of the following English language proficiency requirements if the applicant's bachelor's degree was not obtained from a university/tertiary institution where English is the medium of instruction. 如果頒發申請人學士學位的大學或大專院校並非以英語為教學語言,則申請人需要完成以下任何一項英語語言能 力考試。
 - ٠ TOEFL (paper-based): 550, or TOEFL (internet-based): 79, or TOEFL-iBT Special Home Edition: Overall 79
 - **JELTS: 6.0**
 - TEM-4: 70
 - Duolingo: 105
 - CET-6: 430 or "Pass" if the test was taken before June 2005
 - An equivalent qualification

Exceptional consideration will be made for applicants who fall short of the admission requirements. Five percent of the admission quota is reserved for the exceptional cases.

未能達到入學要求的申請人將作特別考慮。特殊情況獲佔百分之五的錄取配額。

學費 (2022/23) **Tuition Fee (2022/23)**

The tuition fee covers the whole programme. Deposit payment is HK\$43,200 (local applicant) / HK\$56,160 (non-local applicant). All payments are non-refundable and non-transferable.

學費涵蓋了整個課程。按金為港幣 43.200(本地生)/ 港幣 56.160(非本地生)。所有付款均不可退款且 不可轉讓。

Local Applicant 本地生

HK\$172,800 (Total 24 Credits) 港幣172.800元(總計24學分)

Non-local Applicant 非本地生

HK\$224,640 (Total 24 Credits) 港幣224,640元(總計24學分)

Admission Enquiries 入學查詢

Email	
Tel.	
Home	page
Whats	App

dsai@hsu.edu.hk +852 3963 5015 https://dsai.hsu.edu.hk +852 5416 1492





香港恒生大學(恒大)的歷史可追溯至1980年,由何善衡慈善基金會、何添慈善基金會、大昌貿易行、若干恒生銀行創辦人及恒生銀行,慷慨捐 資成立恒生商學書院,並於2010年根據《專上學院條例》(第320章)註冊成為非牟利私立專上學院及改組成為恒生管理學院,提供多元化本科及 以上學位課程,其後於2018年10月30日獲香港特區政府批准正名為「香港恒生大學」。

恒大矢志成為區內具領導地位並以博雅教育為主導的私立大學;並透過卓越的教學、研究及服務,推動社會與世界發展。恒大由五個學院組成 — 商學院、傳播學院、決策科學學院、人文社會科學學院和翻譯及外語學院,現有逾6,000名全日制學生及約200名全職教學人員。

恒大提供範圍廣泛的四年制榮譽學士學位課程及碩士學位課程 。部分課程為全港首創。所有課程均獲香港學術及職業資歷評審局(HKCAAVQ)審 批認可並獲中國內地,香港和台灣政府承認。

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In case of any discrepancy between the English and Chinese versions of this leaflet, the English version shall prevail. 本課程簡介以英文為準,中文譯本僅供參考。

The Hang Seng University of Hong Kong is incorporated in Hong Kong with limited liability by guarantee. 香港恒生大學是一間於香港註冊成立之擔保有限公司。

Information updated as of September 2021. Please refer to the homepage for the latest programme information. 有關資料更新至2021年9月。請瀏覽課程網站以獲取最新資訊。