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Artificial Intelligence Course (Level IV)

# AI and Big Data Analysis (Phase 1)

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**Application Deadline**

**6 Jan 2022 12:00 n.n**

**Result Release**

**11 Jan 2022**

## **Intended Learning Outcomes**

Upon completion of the programme, participants should be able to:

1. Understand the general ideas about common algorithms in data science;
2. Understand basic essential knowledge of big data & AI ;
3. Explain Data Visualisation and create different graphic representation of data;
4. Describe the data ethics in daily life and reducing bias in data sets;
5. Demonstrate the practical know-how by working on real data and problems.



## ◆ Introduction

The industry of Artificial Intelligence (AI) & Big Data Analysis are growing rapidly in the 21st century and developing different innovative products in the markets. They are also the driving forces behind a variety of technological innovations that have shaped today's digital environment and Industry 4.0. Throughout the programme, you will not only be able to participate in a series of lectures and practical workshops covering the basic essential knowledge of big data & AI, but you can also obtain an in depth understanding the relationship between big data & AI and our daily life. At the same time, you will learn various statistical techniques and tools for big data analytics and experience python programming using python libraries.

The course consists of **THREE phases**. The selection is based on students' performance in the final assessment at the end of the programme. The tentative schedule for phase 2 and 3 are as below for reference.

Phase 2: 12 Mar – 14 May 2022; Phase 3: 21 May – 27 Aug 2022

## ◆ Schedule

Session	Date	Time	Venue
1	22 Jan 2022	2:00 p.m. – 5:00 p.m.	Zoom meeting
2	29 Jan 2022		
3	12 Feb 2022		
4	19 Feb 2022		Lecture Hall, SKH Bishop Baker Secondary School, Yuen Long ( <a href="#">Map</a> )
5	26 Feb 2022		
6	5 Mar 2022		

## ◆ Target Participants

- S1 to S6 HKAGE student members in 2021/22 school year
- Class size: 45

## ◆ Pre-requisite

Students should be able to:

- Understand the basic programming logic;
- Interpret and construct of simple statistical diagrams

## ◆ E-Certificate

E-Certificate will be awarded to participants who have:

- Attended at least 5 sessions; AND
- Completed all the assignments with satisfactory performance in the final assessments

## ◆ Screening

Please answer the screening question in the online application form.

\*The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of data science and data analysis in the screening question can be enrolled in the programme.

## ◆ Medium of Instruction

Cantonese with Chinese or English Handouts