'With the omnipresence and power of AI clearly in sight and within our reach, how should humans co-exist and manage this new “being” as a benevolent partner? This is particularly relevant to Hong Kong as it is actively striving for the advancement of Innovation and Technology.'

- Prof. Rocky S. TUAN, Vice-Chancellor and President of CUHK

AI is transforming the way we live!!!

Many disciplines are changing

A – Automotive
B – Bioscience
C – Creative Services
D – Data
E – Education
F – Finance
G – Gaming (note: G may also mean Government)
H – Healthcare
I – Internet of Things

... ...

AI in Automobile

Computer vision enables

• Road line detection
• Traffic sign recognition
• Vehicle / pedestrian detection

...
AI in Bioscience

Prof. P.-A. Heng

Prof. Dou Qi

Reference:
https://cutt.ly/xEYdPYC (2019年5月10日明報大學道專題)
AI in Creative Services

References:
https://hk.on.cc/hk/bkn/cnt/aeanews/20200208/bkn-20200208180001681-0208_00912_001.html
http://www.cse.cuhk.edu.hk/~ttwong/papers/mangainpaint/mangainpaint.html
AI in Data

AI can help find insights in data, e.g., **social media data**, and relate different kinds of data.

Can we predict a series of key phrases for a social media post with both texts and images?

**Post (a):** Contemplating the mysteries of life from inside my egg carton...😊
#cat #cats #CatsOfTwitter

**Post (b):** The `<mention>` have the slight lead at halftime!
#NBAFinals

Reference:
https://www.cse.cuhk.edu.hk/lyu/students/phd
HOW MACHINE LEARNING AND AI ARE TRANSFORMING THE FINANCE INDUSTRY

By 信報財經新聞 on August 22, 2020

September 22, 2021 1:36 PM UTC, FINANCE FEEDS EDITORIAL TEAM

Thanks to the wealth of data that are increasingly available to banks and the general public, sophisticated algorithms are enabling improved processes in many areas of finance.

A subfield of artificial intelligence (AI), machine learning (ML) enables systems to learn and improve independently without the need for explicit programming or human involvement. But ML only works when it has access to enormous volumes of data, allowing...
AI in Gaming

Some games start to use AI:
• To bring non-player characters (NPC) to life
• To adapt to each player’s gameplay
• To create stronger AI players, e.g., E-sport in Starcraft II (not only chess games)
• To create a more dynamic virtual world

References:
https://www.nature.com/articles/d41586-019-03630-0
https://www.nature.com/articles/d41586-019-03298-6
AI in Healthcare

- Radiology
- Imaging
- Disease Diagnosis
- Telehealth
- Electronic Health Records
- Drug Interactions
- Creation of New Drugs

Reference:
https://inews.hket.com/article/2572760/

在中国研发新系统，0.04秒完成评估
AI分析CT图速验新冠肺


Prof. Dou Qi
Growing Demand and Opportunities

- **Expect more than 50,000 jobs** for high-tech industries with the HKSAR government’s policies in innovation and technology.

- **AI Specialist** is the most popular among the top 15 emerging jobs with annual growth of 74% in demand in USA (LinkedIn 2020 Emerging Jobs Report).

- **150M technology-related jobs** expected to be added globally over the next five years (LinkedIn Jobs on the Rise in 2021).

References:


Growing Demand and Opportunities

• Many industries are now looking for the use and advancement of **AI to boost up the work efficiency**
  » Opportunities for you to **innovate and change the world**!

• Many other possible occupations
  » AI Specialist
  » Data Scientist
  » Software Developer
  » Computer Engineer
  » R&D for AI
  » ...

```
中大計算機科學與工程學系

科技知識培養人才 推動香港人工智能發展

人工智能（AI）發展一日千里，近年政府更大力推動相關AI科技的項目，可見此已成為現時科技的大趨勢。社會對相關人才亦相當渴求。因此，香港中文大學（中大）開辦了「人工智能系統與科技」工程學士課程教授學生基礎知識，創新的AI解決方案，以及AI與社會相關的AI問題等，培養能應對各種有關AI挑戰的專才。以應付社會對AI人才的需求。

中大計算機科學與工程學系系主任金創教授表示，香港為全球金融中心及科技城市，近年香港貿易發展局更將在科技、AI、金融科技、智慧城市等四大領域推行發展，故可見AI對香港而言，是非常重要的科技發展。加上近年AI在不同層面的應用不斷增加，社會對AI人才的需求漸增，很多相關的工作與政府或大型企業都有密切關係，其前景非常廣闊。

金教授指，為配合社會需要，今中大在兩年前開辦了「人工智能系統與科技」工程學士課程，以培養學生掌握人工智能的知識，從而培育更多AI人才。中大在該課程有獨特之處，例如於其他大學開辦的課程，這課程的全部科目，例如數學、工程學、電子工程等基礎性知識，均在工程學等學習，非常重視學生的基礎知識的科學家及工程師等不同職業。

課程除了為學生提供基礎設計和操作人工智能系統和技術的基礎，還提供廣泛的基礎知識，包括數學、基礎科學、數據結構、統計等，分佈式計算等基礎，從大量資料中分析、推論和推導。旨在培育學生具備當今人工智能和相關專業領域的强大需

學生因應興趣 選讀四大專科範疇

在「智能醫學」範疇，學生可在生物醫學上學習應用AI技術，例如研究生物與行為的關係，以及智能醫療決策系統等，培養學生應用AI在影像診斷、語言處理及其他應用於智能醫療處理，例如利用AI診斷某些疾病，或為患者提供個性化的治療方案。

學生可選讀四大專科範疇，為學生提供廣泛的學習機會，以符合學生的個人興趣和職業發展。

金教授指出，「人工智能系統與科技」工學士課程獨特之處是集中在工程學院內教授學生專科知識，通過科學家及工程師等人才。

學生可選讀四大專科範疇，為學生提供廣泛的學習機會，以符合學生的個人興趣和職業發展。
中文大學首創人工 intelligence 課程 為未來創科五萬職位提供人才

人工智能無疑是近年非常熱門的新科技潮流，其應用範圍之廣，甚至可以取代真人的工作，影響就業市場。不過也有意見認為人工智能的普及會為求職市場增加需求，在香港新增達五萬個職位。香港中文大學就看準這個機會，開辦人工智能課程培育相關人才。
Special Features

• **1st Bachelor of Engineering programme in AI in Hong Kong**
  » More preferred by students (based on past JUPAS data)

• **4 specialized streams**
  » Biomedical Intelligence
  » Intelligent Multimedia Processing
  » Large-scale Artificial Intelligence
    – Theory and Systems
  » Intelligent Manufacturing and Robotics
Mission

• **Enable students to develop cutting-edge AI solutions** that are of practical interest to academics, industry, and society

• **Nurture local talents in AI related applications** to meet today’s tremendous need of well-trained talents in AI and related specializations
Programme Objective

• Equip students with the **capabilities of building AI systems** that can analyze and infer knowledge from massive information

• Backed by **rigorous foundations** like data structures, statistics, machine learning and distributed computing

• Emphasize solid trainings on
  » **Mathematical analysis** and reasoning on massive data
  » **Large-scale system design and implementation** for processing massive data
Department of Computer Science and Engineering
Let’s take a look at our department

https://www.youtube.com/watch?v=yREmhllWI80
A Long History

- The first computer science department in HK
- Offering AIST, CDAS, CENG and CSCI programmes
- A strong alumni network
Excellence in Teaching and Research

2021 Kyoto Prize Laureate and Turing Award Recipient
Prof. Andrew Yao

Seven ACM Fellows
Prof. Andrew Yao, Prof. Martin Wong, Prof. Michael Lyu, Prof. Benjamin W. Wah, Prof. John Lui, Prof. Yufei Tao, etc.

Ten IEEE Fellowship
Prof. Irwin King, Prof. John Lui, Prof. Jiaya Jia, etc.

CUHK University Education Award 2020
Prof. Irwin King, for the KEEP team (Knowledge & Education Exchange Platform)

Vice-Chancellor's Exemplary Teaching Award 2019
Senior Lecturer Michael Fung
Recent Achievements in Intl’/local Competitions

3 Awards in International Conference on Computer-Aided Design (ICCAD)

• 1st place for topic “GPU-Accelerated Logic Rewriting” and 2nd place for “Routing with Cell Movement Advanced” in 2021 CAD Contest

• 2nd place in 2021 CADathlon

International Collegiate Programming Contest (ICPC) (formerly named ACM Programming Competition)

2019: ranked 12th (over 3000 universities)

2012: ranked 8th
2011: ranked 13th
2001: ranked 8th

PwC’s HackaDay 2019

2nd place
2022 QS World University Ranking

• **#26 Worldwide in Computer Science and Information Systems**
• **#5 in Asia**
• **#1 in Hong Kong**

CSRanking in 2022

- #33 worldwide in Computer Science
- #9 in Asia
- Top in Hong Kong

(http://csrankings.org/#/fromyear/2021/toyear/2022/index?all&world)
Student Training

CUHK Amazon Deep Learning Workshop 2019
& AWSome Day 2020

Cooperated with Amazon to offer student training in deep neural networks and machine learning

City Challenge – Bridge to a Smarter City 2016

Designed technology-based living applications for the elderly and won the second runner-up
Industrial Visits

• Visit to companies to learn latest development in industry
Work-Study Scheme

• One-year placement and internship for students to gain practical experience in a real working environment

Example of Previous Opportunities in CSE

Google
Microsoft
HP
HSBC
恒生銀行 HANG SENG BANK
新鴻基地產 Sun Hung Kai Properties
ASM Pacific Technology
HKSTP
FUJITSU

More details will be announced when places are available!
Strong Alumni Network

IT Industry
- Microsoft
- Google
- Apple
- IBM
- NOKIA
- amazon.com
- facebook

Education
- CityU
- NUS
- National University of Singapore

Banking
- HSBC
- citibank
- Morgan Stanley
- Deutsche Bank
- Deloitte
- Goldman Sachs
I'm now working in Deloitte's Cyber Risk Advisory Team. Cybersecurity is a promising job, you can equip yourself to be a cybersecurity expert by enrolling relevant courses provided by the Department of Computer Science and Engineering. Cybersecurity professionals, like information security analysts, protect businesses, governments, and individuals from criminal activities on the internet. With the explosive growth of the internet in business, education, and personal communication, computer experts with knowledge of cybersecurity are in high demand.
The courses offered by the CSE department give a solid foundation on both the practical and theoretical sides of CSCI programme. I'm now working in Google's Android Pixel team, topics from CSCI courses still often pop up during my day-to-day job. As the software industry becomes increasingly competitive, I feel quite lucky that I’ve undergone such rigorous academic training.

Yu CHAO,
CSCI Graduate of 2020
During the 4 years of my study as a CENG student, I could take courses on different topics. These courses not only consolidate my knowledge related to my major but can also train up my critical thinking and logical thinking skills. We have to design & implement a smart hardware product in just a few weeks and this project not only gives me a hands-on experience on designing smart hardware product, but also improves my communication skill and time management skill.
The special thing about AIST programme is the learning experience which has been eye-opening. I can get to build a **solid foundation** on not only the **problem-solving mindset**, but also **fundamental knowledge** such as calculus and statistics. Although some may find them difficult, they are valuable tools that will help distinguish me from the non-engineering counterparts.
What’s More?

• Chances to create your own project and innovation with support and advice from CSE teachers

• Exchange opportunities to world-class universities

• High competitiveness in job market with 90% of CSE graduates employed within one month of graduation

• CSE teachers usually have the highest teaching evaluation scores
Why CSE Department?

Because it is fun!
Admission Requirements for JUPAS Applicants
# AIST Admission Requirements (2022 Entry)

<table>
<thead>
<tr>
<th>HKDSE Subject</th>
<th>Minimum Level</th>
<th>Subject Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HKDSE Core Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language</td>
<td>4</td>
<td>1.25</td>
</tr>
<tr>
<td>Chinese Language</td>
<td>3</td>
<td>1.25</td>
</tr>
<tr>
<td>Mathematics (Compulsory Part)</td>
<td>5^</td>
<td>1.75</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>HKDSE Elective Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any two subjects</td>
<td>3</td>
<td>#</td>
</tr>
</tbody>
</table>

^ Applicants with level 4 in Mathematics (Compulsory Part) and good results in other HKDSE subjects will be exceptionally considered on a case-by-case basis.

# The AIST programme accepts any subject as elective, with subject weighting of **1.75** for Mathematics M1/M2; **1.5** for Biology, Chemistry, Physics, Combined Science and ICT; and **1** for any other subjects.

Selection is based on the Best 5 HKDSE subjects with subject weighting applied. Bonus points will be awarded to the 6th and 7th subjects, if any.
**AIST Admission Grades (2021 Entry)**

<table>
<thead>
<tr>
<th>Percentile</th>
<th>CHI</th>
<th>ENG</th>
<th>MATHS</th>
<th>LS</th>
<th>M1/M2</th>
<th>Elective</th>
<th>Elective</th>
<th>Elective</th>
<th>Reference Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Quartile</td>
<td>4</td>
<td>5**</td>
<td>5**</td>
<td>4</td>
<td>5*</td>
<td>5*</td>
<td>5*</td>
<td>5*</td>
<td>32</td>
</tr>
<tr>
<td>Median</td>
<td>3</td>
<td>5</td>
<td>5**</td>
<td>3</td>
<td>5**</td>
<td>5*</td>
<td>5</td>
<td>5</td>
<td>30</td>
</tr>
<tr>
<td>Lower Quartile</td>
<td>3</td>
<td>5</td>
<td>5**</td>
<td>4</td>
<td>5</td>
<td>5*</td>
<td>5*</td>
<td>5</td>
<td>29</td>
</tr>
</tbody>
</table>

^ The Total Reference Score is the total score of the applicant calculated based on the best 5 subjects in Category A or Category C of HKDSE:

where lv 5** = 7, lv 5* = 6, lv 5 = 5, lv 4 = 4, lv 3 = 3, lv 2 = 2, lv 1 = 1 for Category A subjects;

and Grade A = 5, Grade B = 4, Grade C = 3, Grade D = 2, Grade E = 1 for Category C subjects.

Admission is not based on public examination results alone, and the overall scores of students admitted vary from year to year. The information provided is for reference only and should not be used to predict the chance of admission in subsequent years.

Admission Requirements for Non-JUPAS Applicants
AIST Admission Requirements (for Non-JUPAS & International Applicants)

• Applicants seeking admission on the strength of qualifications other than HKDSE examination results (e.g., IB, GCE-AL, overseas qualifications) can apply through Non-JUPAS channels

• Will be considered on the basis of their education background and academic achievements

• Will be expected to demonstrate outstanding abilities in English, mathematics and science subjects

Check more details at OAFA’s website!

Non-JUPAS Applications: http://admission.cuhk.edu.hk/non-jupas-yr-1/requirements.html
International Applications: http://admission.cuhk.edu.hk/international/requirements.html
Curriculum Structure
Curriculum – Overview

1. Faculty Package
2. Major Foundation
3. Major Core
4. Major Electives

- Final Year Project
- University Common Core (Languages, GE, PE) (39 Units)
- Free Electives (9 Units)

Total Units: 123
Curriculum – Major Requirements

1. Faculty Package
2. Major Practicum
3. Major Core
4. Major Electives

Major Electives

Final Year Project

75 units
Curriculum – Faculty Package and Foundation

Faculty Package and Foundation (15 units)

» Problem Solving By Programming (ENGG1110)
» Linear Algebra for Engineers (ENGG1120)
» Multivariable Calculus for Engineers (ENGG1130)
» Calculus for Engineers (MATH1510)
» General Physics for Engineers (PHYS1003)
Curriculum – Major Practicum

Major Practicum (3 units)
- Technology, Society and Engineering Practice (AIST2601)
- Engineering Practicum (AIST2602)
Curriculum – Major Foundation

Major Foundation (10 units)

» Introduction to Computing Using Python (AIST1110)
» Discrete Mathematics for Engineers (ENGG2440)
» Probability for Engineers (ENGG2760)
» Statistics for Engineers (ENGG2780)
Curriculum – Major Core

Major Core (18 units)

- Introduction to Artificial Intelligence and Machine Learning (AIST1000)
- Numerical Optimization (AIST3010)
- Introduction to Computer Systems (AIST3020)
Curriculum – Major Core

Major Core (18 units)

- Data Structures (CSCI2100)
- Design and Analysis of Algorithms (CSCI3160)
- Fundamentals of Artificial Intelligence (CSCI3230)
- Fundamentals of Machine Learning (CSCI3320)
Curriculum – Major Electives

**Major Electives (23 units)**

**Streams**
1. Biomedical Intelligence
2. Intelligent Multimedia Processing
3. Large-scale Artificial Intelligence – Theory and Systems
4. Intelligent Manufacturing and Robotics

**Non-Stream**
5. General Artificial Intelligence: Systems and Technologies
Stream 1: Biomedical Intelligence

• Study how to build **intelligent biomedicine** and healthcare applications

• Two emerging markets:
  » **Personalized genomics** and **precision medicine** (e.g., disease prevention, prediction, early diagnosis and treatment)
  » **Clinical record systems** (e.g., electronic medical records and pharmacy prescription information and insurance records)
Stream 2: Intelligent Multimedia Processing

• Study how to bridge AI and human brain functions and design models, algorithms, and systems for multimedia processing with high performance and high accuracy.

• Areas: digital image processing, face recognition, computer animation, human-computer interactions, speech and audio processing, computational linguistics
Stream 3: Large-scale AI – Theory and Systems

• Study the advanced techniques of realizing large-scale artificial intelligence from both theory and system perspectives
  » **Theory**: machine learning theory, statistical inference, online algorithms, *etc.*
  » **Systems**: high performance computing, distributed storage, big data management, *etc.*
Stream 4: Intelligent Manufacturing & Robotics

• Study **how to integrate manufacturing and robotics with AI** for different aspects of human activities.

• Focus on the topics of **mechanics**, sensing and control, design & manufacturing, **human-robot interactions**, etc.
Distinct Topics

• Many other practical and interesting courses in AI:
  » Machine Learning
  » Deep Learning
  » Large Scale Distributed Computing
  » Intelligent Embedded Systems
  » Knowledge Representation/Inference
  » Human-Computer Interactions
  » Natural Language Processing
  » Big Data Analytics
  ...
  ...

Curriculum – Final Year Project (FYP)

Final Year Project (6 units)

- Pick an interesting topic
- Interdisciplinary nature
- Apply the knowledge learnt in the previous courses
- Many open topics. Your creativity and discussion with the supervisor
- Complete a project under the supervision of an advisor

Open topic FYP – you may also propose a project to a professor
FYP (AI + Bioinformatics)

• Apply machine learning to predict RNA-protein interaction

RNA folds to a specific structure to fit into the protein binding site

RNA-binding protein (RBP)

Sample from current CE/CS students (FYP KY1804)
FYP (AI + Multimedia)

• Design a neural network that learns to produce a tiling
FYP (AI + Computer Vision)

- Chinese Medicinal Herb Recognizer

Sample from current CE/CS students (FYP MHW1804)
FYP (AI + 3D Vision)

- Design the best neural network for 3D car detection

Sample from FYP CWF2002 (The UG student co-authored “research papers” in AAAI 2021 & CVPR 2021)
FAQs
FAQ Contents:
Q: Will there be any interview?
Q: Will there be any exchange opportunity?
Q: Will there be any scholarship or financial aid?
Q: What is ELITE Stream? How can I join it?
Q: How can I declare the specialized stream?
Q: What are the differences between AIST and CSCI?
Q: What are the career prospects of CSE graduates?
Q: Can I transfer to CSCI or other majors in Year 2?
Q: Can I declare AIST / CSCI / CENG as second major or minor?
Q: I am still struggling to choose AIST / CSCI / CENG. What can I do?
Q: Will AI replace us in the near future?
Q: Will there be any interview?
Interview Arrangement (JUPAS)

- We plan to arrange interviews in **mid-/late June, 2022**.

- We only consider **Band A applications** for shortlisting.

- Shortlisted applicants will receive an invitation email for the details, *e.g.*, *date, time, format, etc.*

- Stay tuned! **Check your email** regularly for the latest update!
Interview Arrangement (Non-JUPAS & International)

• Interviews will be conducted in batches from ~Jan. every year.

• You are encouraged to attach adequate supporting documents, e.g., transcripts, predicted grade, certificates, etc., in your application for our holistic review.

• Shortlisted applicants will receive an invitation email for the details, e.g., date, time, format, etc.

• Stay tuned! Check your email regularly for the latest update!
Q: Will there be any exchange opportunity?
Exchange to Overseas Universities

• You are encouraged to join the exchange programme to broaden your horizon and learn with peers from diverse background

• List of some overseas universities for the exchange
  » Macquarie University, Australia
  » University of Toronto, Canada
  » Shanghai Jiao Tong University, China
  » Telecom & Management SudParis, France
  » Royal Institute of Technology (KTH), Sweden
  » University of California, Davis, USA
  ...

More information: https://www.oal.cuhk.edu.hk/exchange2021/
Q: Will there be any scholarship or financial aid?
Scholarships and Financial Aids

• The Government and the University offer various scholarships and financial aids depending on student’s financial situation, or their outstanding performance in academic or other areas

• List of some scholarships and financial aids
  » Admission Scholarships
  » Scholarships for Overseas Studies
  » Government or University Financial Aid
  » Summer Subsistence and Travel Loan Scheme
  » Student Residence Bursary Scheme
  ...

Check out more details at the Office of Admissions and Financial Aid (OAFA)!
Q: What is ELITE Stream? How can I join it?
Engineering Leadership, Innovation, Technology and Entrepreneurship Stream (ELITE Stream)

• Offered by the Faculty of Engineering to students with excellent academic performance.

• Challenge yourself with additional coursework, invaluable extra-curricular activities, exclusive stimulating and inspiring courses, special exchange opportunities, etc.!

Check out more details at the Faculty of Engineering!
Q: How can I declare the specialized stream?
Stream Declaration

- You should check and complete the required courses of the respective stream.

- You will be invited for the stream declaration in the final year of study.

- You can declare in at most one stream.

Major Electives (23 units)

Streams
1. Biomedical Intelligence
2. Intelligent Multimedia Processing
3. Large-scale Artificial Intelligence – Theory and Systems
4. Intelligent Manufacturing and Robotics

Non-Stream
5. General Artificial Intelligence: Systems and Technologies
Q: What are the differences between AIST and CSCI?
AIST vs CSCI?

• AIST and CSCI have related foundation & basic theories

• AIST requires stronger Math foundation since it involves statistics, probability, calculus, linear algebra, etc., which are basis for machine learning and deep learning

• CSCI focuses more on software design and computing solutions, taking care of coding and software architecture
Q: What are the career prospects of CSE graduates?
Career Prospects

• Employers of our graduates include:
  » Google
  » Intel
  » Microsoft
  » IBM
  » Apple
  » Facebook
  » Yahoo
  » Deloitte
  » Hong Kong Government
  » Investment Banking Institutes

Many disciplines are changing
A – Automotive
B – Bioscience
C – Creative Services
D – Data
E – Education
F – Finance
G – Gaming (note: G may also mean Government)
H – Healthcare
I – Internet of Things
Q: Can I transfer to CSCI or other majors in Year 2?
If you look for CSCI / other majors instead...

- You may submit application for **change of major** (to CSCI or other majors), subject to prevailing regulations stipulated by RES and approval by relevant unit(s).

- If you are determined to go for CSCI, you may choose **Computer Science and Engineering (JS4412)** as your choice and select CSCI in Major Allocation when promoting to Year 2.
Q: Can I declare AIST / CSCI / CENG as second major or minor?
Declare Second Major / Minor

• You are **not allowed to declare AIST / CSCI / CENG as your second major or minor** if you are a CSE student.

• However, you are encouraged to broaden your horizons and declare second major / minor offered by other departments.
Q: I am still struggling to choose AIST / CSCI / CENG. What can I do?
If you are still struggling to choose...

• You can **go through our website and admission materials** for a better understanding before submission, and **write to us via email to ug-admiss@cse.cuhk.edu.hk** whenever you have any queries.

• You can **join our outreach activities** in the future and chat with our teachers and student ambassadors.

• You can also **subscribe our social media channels** to receive the latest updates from us! Stay tuned!
Q: Will AI replace us in the near future?
Humans in Future AI Era

• Umm... there may not be a perfect answer at the moment
• From what can be observed recently: routine jobs are more easily replaced by AI, while others are more likely to go into a “human-in-the-loop” model, where AI and humans work together to boost performance, e.g., creative media

Reference: https://humansintheloop.org/what-is-a-human-in-the-loop/
See you in Fall 2022!