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# AI Convergence Platform

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**Stop Wishing, Start Doing and Take command of your life !**

**Fall, 2025**

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**Jaedong LEE, Ph.D**

## 스마트 가전시장, AI플랫폼 전쟁

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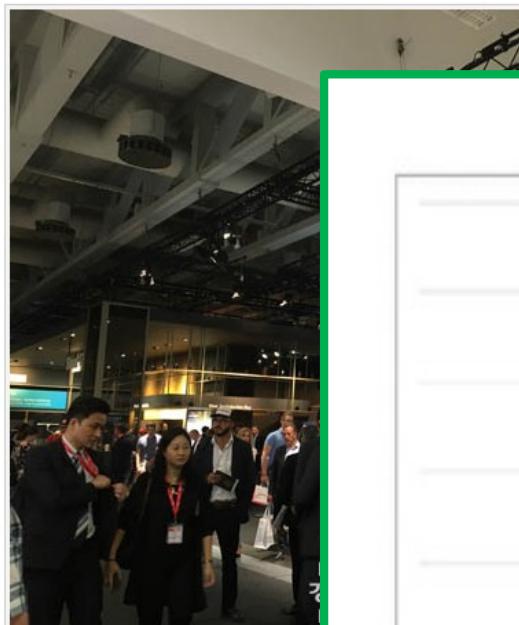
-작게 +크게

인쇄 목록



- 인공지능 서비스의 플랫폼 지분을 놓고 구글과 아마존 대결

독일 베를린에서 지난 8월 31일~9월 5일까지 열린 유럽 최대 가전박람회 'IFA 2018' 현장에서는 '4차 산업혁명'이 바꿔놓을 우리의 미래가 성큼 다가왔음을 실감할 수 있었다. 사물인터넷(IoT)과 인공지능 덕에 기존에 사람이 버튼을 눌러 작동하던 가전제품들은 이제 음성인식으로 동작하고, 집은 사용자의 위치정보를 인식해 실내온도와 조명을 비롯한 환경을 자동으로 조절한다. 이처럼 스마트 가전을 움직이는 '인공지능' 서비스의 플랫폼 지분을 놓고 구글과 아마존의 경쟁도 본격화되고 있었다.



독일 지멘스사가 베를린에서 열린 'IFA 2018'에서 선

## 정부 5조원 들여 플랫폼 경제·4차산업혁명 인재 키운다

박은하 기자 eunha999@kyunghyang.com

입력 : 2018.08.13 14:34:00 | 수정 : 2018.08.13 16:17:39

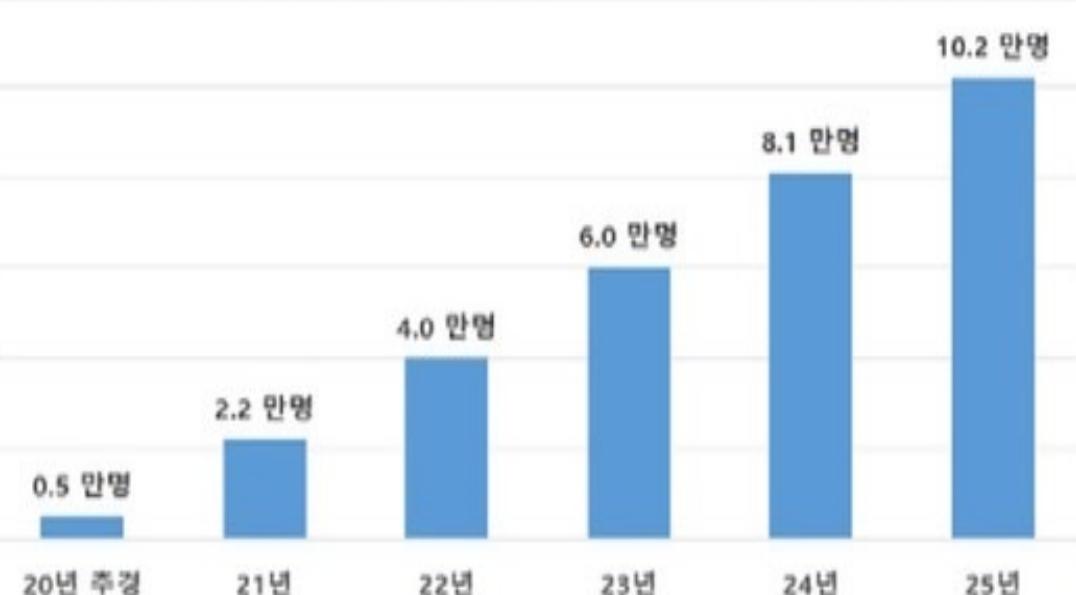


산업 혁신

경제

래 전략산업으로 선정하고 내년도 예산 5조원

### 【AI·SW 핵심인재 10만 양성계획(누적)】





**Why AI Platform ?**

# AI +AI+AI



## **Two key criteria by AI for innovation**

### **1. AI technology**

- Already advanced and will develop rapidly
- Currently open source can be easily obtained by anyone
- Uber uses the open source such as google map and apple pay etc.

### **2. Market for Application → Platform**

- The idea of applying the technology is more important than the technical part in order to preoccupy the market

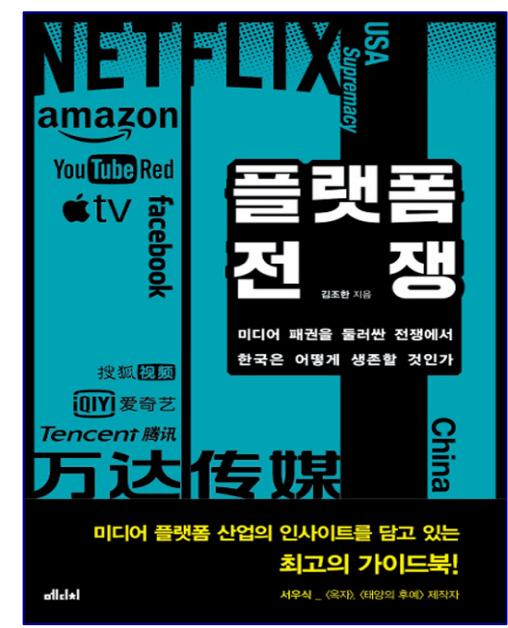
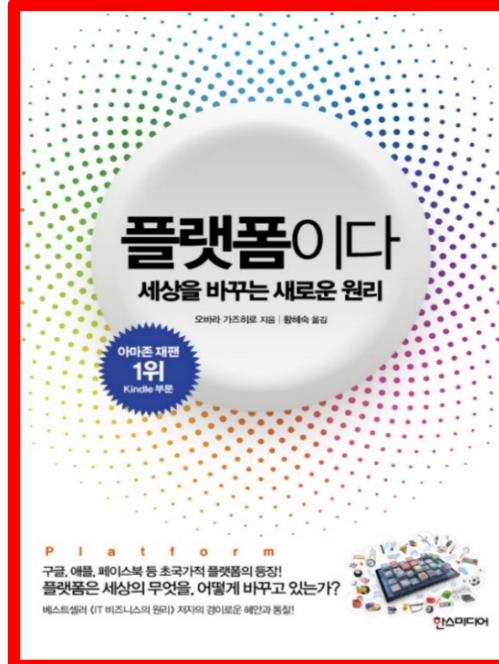
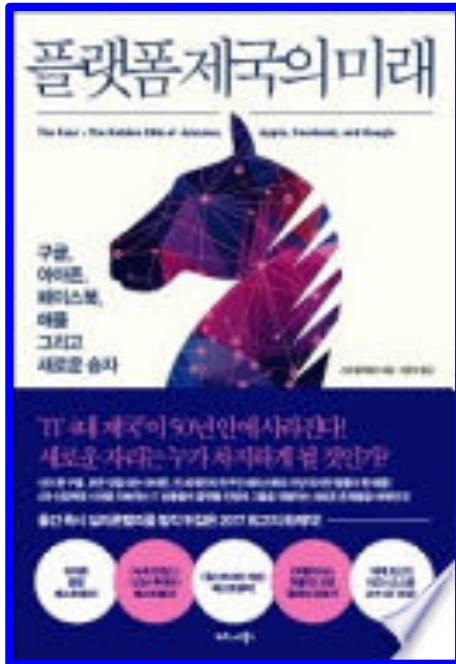
# Platform !!

The platform is already changing the world itself!  
플랫폼은 이미 세상 자체를 바꾸고 있다!

Key Changes of the 4<sup>th</sup> Industrial Revolution → Platform Revolution  
제4차 산업혁명의 핵심적인 변화 → 플랫폼 혁명

At this moment, the market is already dominated by the platform  
지금 이순간 시장은 이미 플랫폼이 장악하고 있다

Why are giant companies dominated by the platform ?  
왜 거대 기업이 플랫폼에 밀리고 있나 ?



# Course Summary

- ✓ This course examines the many different aspects of the AI convergence platform from various perspectives, namely, necessary technologies, service configurations, business models, and implement environments, and analyzes and learns various types of platforms. For examples, this class investigates and analyzes the platform structure, software architecture of the nations of delivery, Paypal, Airbnb, Amazon, Kakao Talk, and Uber and so on
- ✓ In addition, students can learn about the necessary technologies for the 4th industrial environment and how to use AI technologies, and designs the future AI platforms that apply this technology. In addition, students will learn how to use the AI convergence platform, which is a future platform, for business & more

# Course Goal

- Artificial Intelligence Convergence Platform Overview and Definition
- Software structure/architecture of AI convergence platform
- Core technologies of AI convergence platform (AI, convergence, platform technology, etc.)
- Case studies (The nation of Delivery, Uber, Amazon, KakaoTalk, Airbnb, etc.)
- Application plan of artificial intelligence convergence platform
- Group project

# Learning Performance

- ✓ The learning effect of this course is to acquire knowledge about the structure and utility of the AI convergence platform by analyzing various types of platforms from various perspectives and learning (Case Study) the internal and external aspects of the AI convergence platform.
- ✓ In addition, by designing a future platform that applies the necessary technologies for the 4th industrial environment (mainly, big data, AI, etc.), students learn how to use the future AI convergence platform for business.

# Course Objective Summary

1

The 4<sup>th</sup> Industrial Revolution and Platform

2

(AI) Platform : Definition, Types, Roles and Case studies

3

Technologies for AI platforms : AI & application

4

Platform Design Method & Strategy (How to Design?)

5

AI Platform Applications, Biz. Model and **Start-Up**

6

AI Platform Project (Platform Architecture + Biz. Model)

# Weekly Lecture Topics (Syllabus)

1. Introduction of Syllabus (An outline of the subjects in a course)
2. 4<sup>th</sup> Industrial revolution and required technology
3. Artificial Intelligence Convergence Platform Overview
4. Case Study I such as The nations of delivery, Uber and Kakao etc.
5. Case Study II such as Amazon and Airbnb etc.
6. Strategy for Future platform design and Characteristics
7. Success factors and key functions for future platform
8. Midterm test
9. Future platform design and implementation plan #1  
(modularization and development framework PDLC)
10. Future platform design and implementation plan #2  
(Development framework PDLC: design and implementation)
11. Subscription Economy and Sharing Economy
12. AI Convergence Platform 1
13. AI Convergence Platform 2
14. Group discussion and presentation
15. Final Exam

# Evaluation

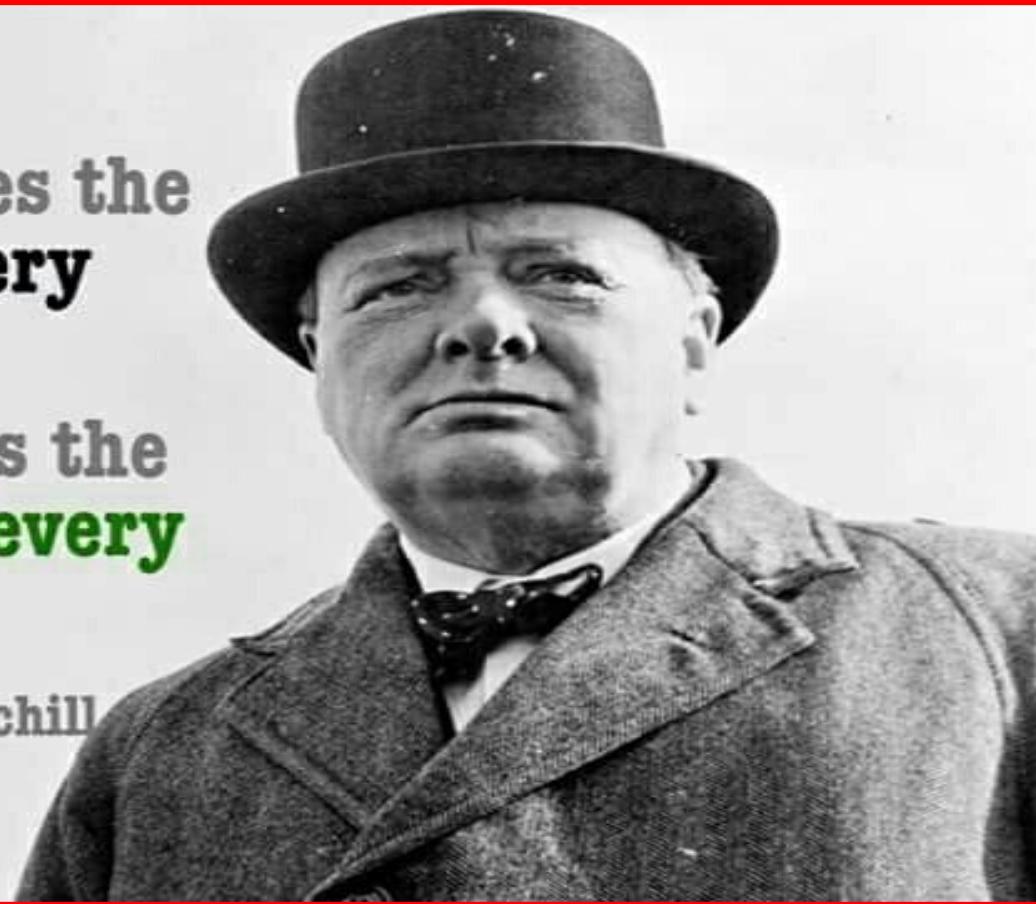
- Exams **(40%)**
  - ✓ Midterm exam (30%)
  - ✓ Final test (10%)
- Only one Homework Assignments **(5%)**
  - ✓ (Penalty) 20~50% deduction depending on the date submitted
- Group project **(45%)**
  - ✓ **A proposal (5%) + a final document(30%) + presentation(10%)**
  - ✓ Any topic related to AI platform
  - ✓ 3~4 persons per each team
  - ✓ Members of the same team may have different points depending on the self-evaluation of each team with a total 100%
- Class Attendance **(10%)**
  - ✓ 1% deduction per absence, 0.5% deduction per late attendance

# Announcement/Notice

- Project Based Learning
- FAIR
- Please follow our class rules and keep common sense
- **Communication** mainly use Kakao Talk and eLearning campus notices
- Learning how to design AI Convergence Platform with business model/strategy rather than learning programming/coding techniques
- Stay to be fun, be enjoyable and be productive

**“A pessimist sees the difficulty in every opportunity;  
an optimist sees the opportunity in every difficulty.”**

~ Winston Churchill



**Never, Never, Never give up !!**

Thank you ^^