



AI Powered

Language

Learning

In

Metaverse

미추홀외고 최승기-박성한-이송욱





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- 구성원 역할
- 핵심가치

프로젝트 소개

- 에듀테크 적용
의 실제
- 수업적용의 시
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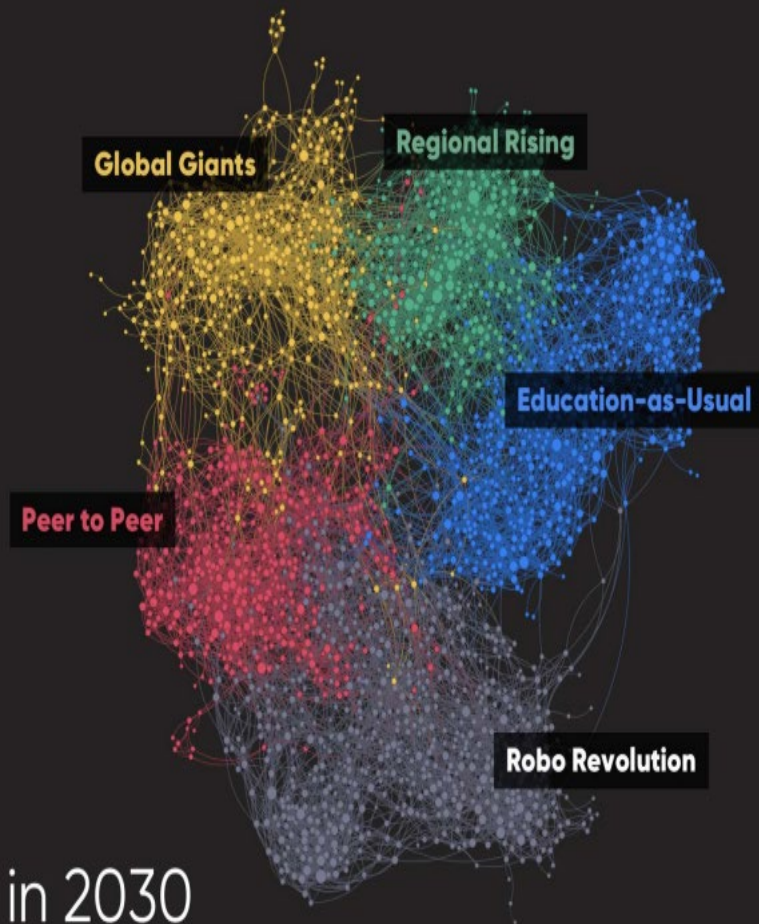
프로젝트 총정리

- 프로젝트 성과
- 프로젝트 보완
점
- 추가연구과제



Why AI Powered Language Learning in Metaverse?

Holon IQ
www.holoniq.com



Education in 2030

Five scenarios for the future of learning and talent.

Why?

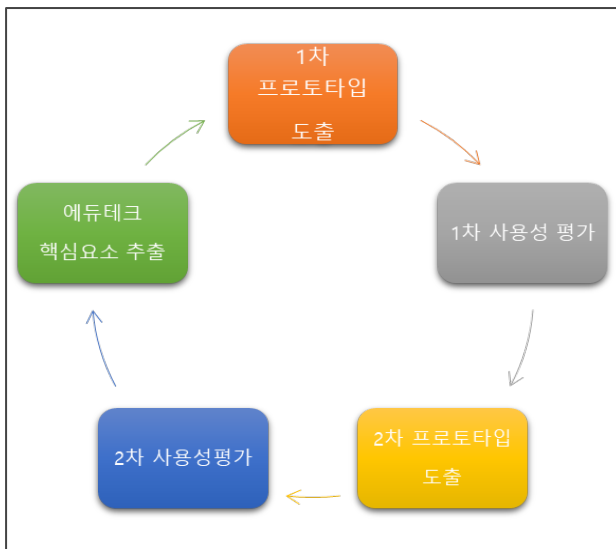
AI Powered Language Learning in Metaverse

핵심 가치 설정

- 학습자분석
- Holon IQ 2022 분석
- 핵심가치 도출
- Education as Usual
- Technology Enhanced Language Learning
- AI, Peer,
- Value Based Learning

에듀테크
RPISD 모델 적용

-Rapid Instructional Systems Design



시사점 도출

- 다시 교사-학생의 만남
- Learning **FROM** Technology to Learning **WITH** Technology



역할분담



이송욱

Holon IQ 분석
핵심가치도출

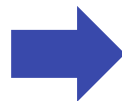
에듀테크 선별 및 메뉴얼
제작



박성한

핵심가치 적용
RPISD 이후 피드백

수업 적용 및 개선안 제안



최승기

최종 프로토타입 적용
현장 적용

행정, 보고서 작성



어휘학습

Big Data Article

내용이해

Comprehension
Checkups

챗봇제작

Meet a Sage

딥페이크

AI 활용 메시지제
작

메타버스

전시 및 상호작용

학습자 분석 도구로서 온라인 단어장

클래스 카드



어휘학습

오바마연설문

내용이해

연설문+아티클

챗봇제작

오바마의 조언

딥페이크

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메타버스

전시 및 상호작용

본질은 자료제작이 아님!



Obama Inaugural Address
20th January 2009

영어지문복사

My fellow citizens:

I stand here today humbled by the task before us, grateful for the trust you have bestowed, mindful of the sacrifices borne by our ancestors. I thank President Bush for his service to our nation, as well as the generosity and cooperation he has shown throughout this transition.

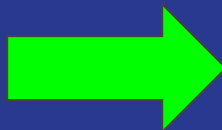
Forty-four Americans have now taken the presidential oath. The words have been spoken during rising tides of prosperity and the still waters of peace. Yet, every so often the oath is taken amidst gathering clouds and raging storms. At these moments, America has carried on not simply because of the skill or vision of those in high office, but because We the People have remained faithful to the ideals of our forebearers, and true to our founding documents.

So it has been. So it must be with this generation of Americans.

That we are in the midst of crisis is now well understood. Our nation is at war, against a far-reaching network of violence and hatred. Our economy is badly weakened, a consequence of greed and irresponsibility on the part of some, but also our collective failure to make hard choices and prepare the nation for a new age. Homes have been lost; jobs shed; businesses shuttered. Our health care is too costly; our schools fail too many; and each day brings further evidence that the ways we use energy strengthen our adversaries and threaten our planet.

These are the indicators of crisis, subject to data and statistics. Less measurable but no less profound is a sapping of confidence across our land - a nagging fear that America's decline is inevitable, and that the next generation must lower its sights.

Today I say to you that the challenges we face are real. They are serious and they are many. They will not be met easily or in a short span of time. But know this, America - they will be met.



단어

obama speech

26 카드 | sh2124 | 3개 클래스 사용 중

영어 편집 | 음 연쇄 | 폴더에 추가 | 클립보드에 추가 | 복제/경험/분리 | 더보기

1초 단어장 완성

학습구간 (10개 단위) 톡 보기

☆ 1구간

^

☆ bear	☆ violence	☆ transition	☆ midst
☆ prosperity	☆ span	☆ mindful	☆ cooperation
☆ strengthen	☆ badly		

Best Speeches of
Barack Obama
through his 2009
Inauguration

Most Recent Speeches are
Listed First

- Barack Obama -
Inaugural Speech
- Barack Obama -
Election Night Victory /
Presidential Acceptance Speech
- Nov 4 2008
- Barack Obama - Night Before
the Election - the Last Rally -
Manassas Virginia - Nov 3
2008
- Barack Obama - Democratic
Nominee Acceptance Speech
2008 National Democratic
Convention
- Barack Obama - "A World
that Stands as One" - Berlin

교사의 전문성은 학습자 분석력!



데이터기반의 개별화 교수

part1_irrationality

시험지, 오답분석 성적표 초기화

학생	입기	리플	스켈	복습	테스트	
박성한 sh2124					학습 기록이 없습니다.	
20206 손아현 6736sah					학습 기록이 없습니다.	
20216 임영진 limyoungjin	8/18	8/18	100%	100%	0%	미응시
김미연 mch20201	8/17	8/17	100%	100%	0%	미응시
김찬열 mch20203	8/17	8/17	100%	100%	0%	미응시
김태균 mch20204	8/15	8/17	100%	100%	0%	최고 100점 최종 100점
김하늘 mch20205	8/18	8/18	100%	100%	0%	최고 95점 최종 95점
손아현 mch20206	8/17	8/17	100%	100%	0%	미응시
송예원 mch20207	8/17		100%	0%	0%	최고 100점 최종 100점
윤시연 mch20208	8/16	8/16	100%	100%	0%	미응시
20209 윤예서 mch20209	8/17	8/17	100%	100%	0%	미응시
이가은 mch20210	8/17	8/17	100%	100%	0%	미응시

학생 22명

성적표 제목
클래스카드 성적표

점수 표시

- 입기학습
- 리플학습
- 스켈학습
- 매징개입
- 학습합(반복횟수)
- 테스트 (1차)
- 테스트 (최고)
- 테스트 (최종)

그래프 표시

- 테스트 자수별 그래프

오답범위

생략 | 최종 **누적**

단

1단 **2단**

표시할 내용

단어 | 의미 **모두**

폰트크기

크게 **보통** 작게 | 최소

양면 인쇄

키카오북 등으로 보내기

NEW 성적표 업데이트 공지

미추홀외국어고등학교 박성한 선생님

김 [] 의 클래스카드 성적표

202 | ~2022.8.31

part1_irrationality 43카드

학습합(반복횟수)	테스트(최고)	테스트(최종 1차)
3.3회	95점	95점

응시자수 별 테스트 점수 추이

0차	1차	2차	3차	4차	5차	6차
0점	95점					

오답목록 (표지 않은 문항은 오답목록에서 제외)

naturally (부) 당연히, 자명료, 선천적으로	unpleasant (형) 불쾌한, 싫은
-------------------------------	------------------------

교사의 전문성을 더해주는 개별화수업의 도구

Zengengo

어휘학습

오바마연설문

내용이해

연설문+아티클

챗봇제작

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전시 및 상호작용

읽기/듣기/말하기/쓰기 반복학습

Upside of Irrationality Chapter 2: The Meaning of Labor 공유



동영상 더보기

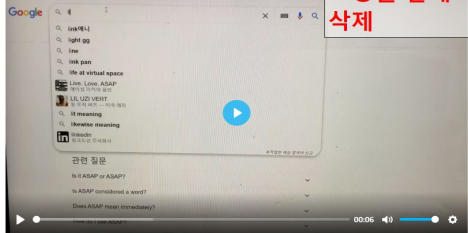
영어 듣고 빈칸채우기

▶ [] and [] and when he

▶ finished he worked really hard on this

김태경 2022-05-25 20:47

영어 말하기 초상권 문제로 이미지 삭제



The following submissions could not be matched to the list of submitters defined for this folder:

Submitter Submitted

Let us know if you have experienced "censorship" in your life.
when/where/how/who/why/what

02:00

영어 말하기

Reorder the following passages:

...can more readily observe our biases, be more aware of their influences on us, and hopefully make better decisions...

...the multiple irrational forces that influence us could be a useful first step toward making better decisions...

...our working and living environments in ways that are naturally more compatible with what we can and cannot do.

...Although I can't imagine that we will ever become perfect decision makers, I do believe that an improved understanding of...

...And we don't have to stop there. Inventors, companies, and policy makers can take the additional steps to redesign...

This is the real goal of behavioral economics: to try to understand the way we really operate so that we...

읽기영역

Submit

창의력의 전제는 지루한 반복학습

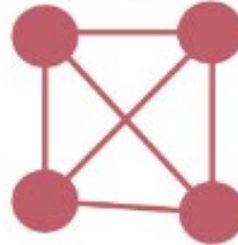
점들을 연결하는 선의 개수 15



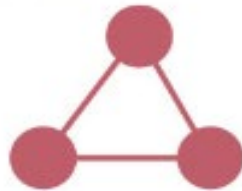
점들을 연결하는 선의 개수 10



점들을 연결하는 선의 개수 6



점들을 연결하는 선의 개수 3



1



기존의 지식이 많을 수록 쉽게 많아 진다

학습데이터 분석을 통한 개별화지도

The screenshot displays a web interface with two main panels. The left panel, titled "Submission", shows a student's text response. The right panel, titled "Teacher's Feedback", shows a timer at 10:00, a microphone icon, and a score of 66%.

Submission
(2022-09-06 11:13)

The graph says that not all the higher bonus means the higher achievement. **1** according to this graph, we can notice that how much bonus is appropriate to improve the employer's achievement and effort is really hard to know and count. **2** in this graph they lower bonus made the higher earnings and achievement, therefore according to this we can know that lower bonus can make people work harder and how hard to do the job and work decide how much bonus is efficient to make the workers work mote and more hard and more and more eagerly. Let's do work more efficiently!!!

Teacher's Feedback

10:00

Score 66 %

디지털 인문학자되기

빅데이터의 눈으로 텍스트 읽기

Voyant Tools



어휘학습

오바마연설문

내용이해

연설문+아티클

챗봇제작

오바마의 조언

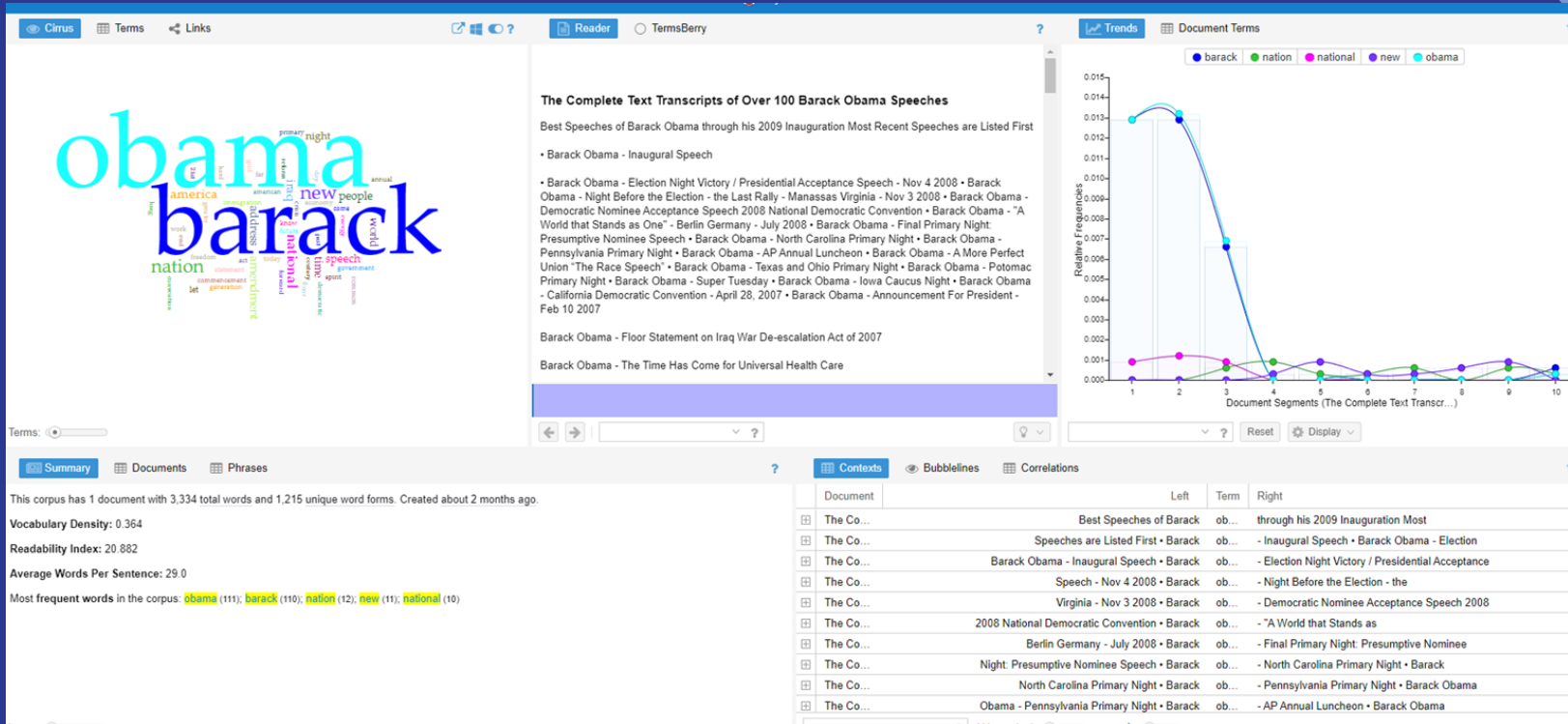
딥페이크

AI 활용 메시지제작

메타버스

전시 및 상호작용

Big Data의 눈으로 텍스트 읽기



AI 활용하는 전문가되기

내가 만드는 AI 챗봇

Dialogflow



어휘학습

오바마연설문

내용이해

연설문+아티클

챗봇제작

오바마의 조언

딥페이크

AI 활용 메시지제작

메타버스

전시 및 상호작용

텍스트 기반의 논리 구조 생성

Intent 1:

Obama Currently, the minimum wage in Korea is continuously increasing at 9,160 won. If you are curious about the wage increase of our company, please choose a, if not choose b.

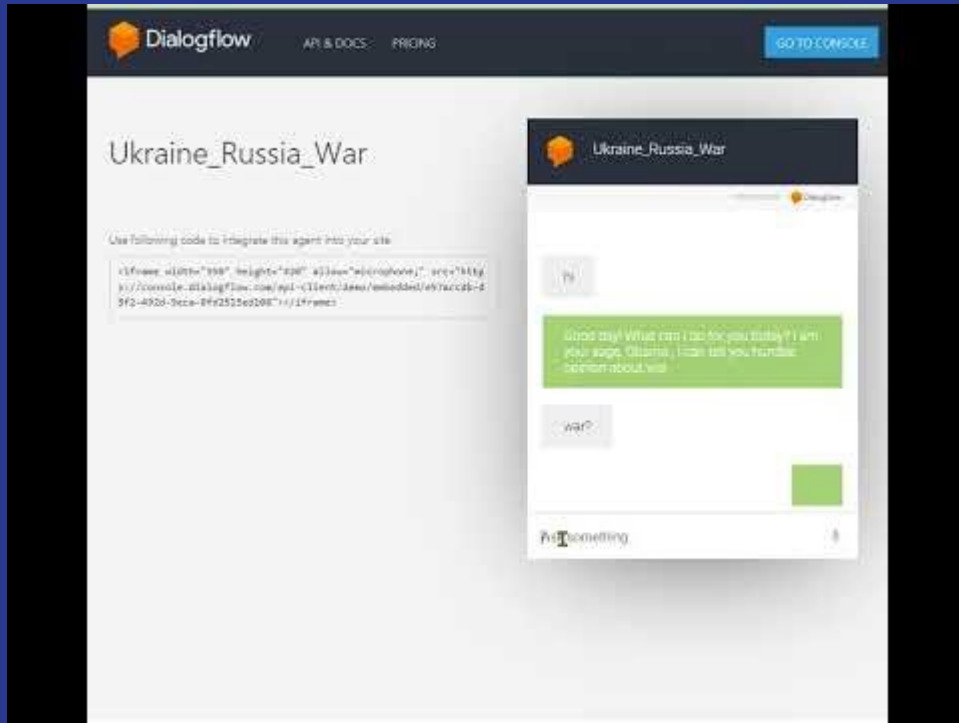
a: Korea's minimum wage is continuously increasing from 7,530 won in 2018 to 9,620 won in 2023, while our corporate wages have not yet risen. I know that there are complaints from workers about this face. As the minimum wage in Korea is currently on the rise, we will raise wages according to the 'Deontology' or 'Obligation theory' that follows the universal law that should be applied to anyone so that it is not differentiated from other industries. If you are curious about the related obligation theory, please choose 11, if not, choose 12.

b: It was a pleasure talking to you. Have a nice day. Thank you.

11: We're following the universal law that can be applied to anyone according to Deontology. The rule is a condition that must be universally established for all and must have internal and logical consistency. In addition, decisions should be made without considering special circumstances. If you want to know more about cases related to this, please choose 13, if not, choose 14.

12: It was a pleasure talking to you. Have a nice day. Thank you.

Chatbot 결과물 예시



The image shows a screenshot of the Dialogflow console interface. At the top, the Dialogflow logo is on the left, and navigation links for 'API & DOCS' and 'PRICING' are in the center. A blue button labeled 'GO TO CONSOLE' is on the right. The main heading is 'Ukraine_Russia_War'. Below it, there is a section titled 'Use following code to integrate this agent into your site' with a code block containing an iFrame script. To the right, a preview window shows a chatbot interface with a dark header 'Ukraine_Russia_War'. The chat history includes a user input 'war?' and a system response: 'Hello! What can I do for you today? I am your agent. Please, I can tell you something about war.' A green input field and a 'Send' button are visible at the bottom of the chat window.

Dialogflow

API & DOCS PRICING

GO TO CONSOLE

Ukraine_Russia_War

Use following code to integrate this agent into your site

```
<iframe src="https://console.dialogflow.com/api-client/demo/embedded/497accd8-89f2-492d-9eca-84e252e02087" /></iframe>
```

Ukraine_Russia_War

war?

Hello! What can I do for you today? I am your agent. Please, I can tell you something about war.

Send

Something

인공지능 윤리를 함양한 인재되기 Deepfake

어휘학습

오바마연설문

내용이해

연설문+아티클

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인공지능 윤리의 함양

인간다움과 미래다움이 공존하는 교육 패러다임 실현

대원칙

사람의 성장을 지원하는 인공지능

세부원칙

교육분야 인공지능은

사람

+

공동체

+

기술

- 1 인간성장의 잠재성을 이끌어낸다.
- 2 학습자의 주도성과 다양성을 보장한다.
- 3 교수자의 전문성을 존중한다.
- 4 교육당사자 간의 관계를 공고히 유지한다.
- 5 교육의 기회균등과 공정성을 보장한다.
- 6 교육공동체의 연대와 협력을 강화한다.
- 7 사회 공공성 증진에 기여한다.
- 8 교육당사자의 안전을 보장한다.
- 9 데이터 처리의 투명성을 보장하고 설명 가능해야 한다.
- 10 데이터를 합목적적으로 활용하고 프라이버시를 보호한다.

실제 제작물



배움을 나눔으로

AI Powered Language Learning in Metaverse

어휘학습

오바마연설문

내용이해

연설문+아티클

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오바마의 조언

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메타버스

전시 및 상호작용



Technology 와 함께 성장하기





Learning **from** Technology

Learning **with** Technology



수업의 본질은 Technology가 아닌

학생과의 “만남” ...!

함께 성장하기



Thank You