



LEWIS JOHNSON, PhD

Chief Executive Officer



Thought-leader, researcher, published author & entrepreneur in advanced educational methods & technologies

Applying artificial intelligence & gamification to education & training throughout his career

Former director of the Center for Advanced Research in Technology for Education at the University of Southern California

Speaks many languages, has coffee farm in Hawaii, mixes spirits (legally), sings opera

Computer science (AI in education): Yale

Linguistics: Princeton



PRODUCTS & SOLUTIONS CONTACT **NEWS & EVENTS** BLOG CAREERS

00000

Alelo Webinar Series on the Future of Al in **Education and Training**

To provide insight into the promise and potential of this new technology, Alelo offers a webinar series on the Future of Al in Education. We will look at the impact of Al on the experience of learners and teachers, the education and training industry, and the global economy. Seminar speakers will include Alelo experts as well as other thought leaders in the global community of artificial intelligence in education.

READ MORE

EXCLUSIVE | REPORT | TECH |

Can AI fix education? We asked Bill Gates

How personalized learning is changing schools

By Casey Newton | @CaseyNewton | Apr 25, 2016, 1:07pm EDT























News > Education > Education News

Intelligent machines will replace teachers within 10 years, leading public school headteacher predicts

Human tutors will be sidelined in near future as AI takes central role in education, suggests Sir Anthony Sheldon of Wellington College

John von Radowitz | Monday 11 September 2017 08:30 | 🖵 11 comments









Click to follow The Independent Online



RESEARCH - LATEST INSIGHTS - POLICY EXPERTS - CAPABILITIES - GRADUATE

Measuring Teacher Effectiveness

Teachers Matter

Multiple Choices

Tests and the Teacher

Value-Added Modeling

Student Growth Percentiles

Leadership Matters

FAQ

Experts

Research and Commentary

Contact Us

RAND > Education > Projects and Centers > Measuring Teacher Effectiveness >

Teachers Matter: Understanding Teachers' Impact on Student Achievement

Many people emphasize the importance of good teachers, and many local, state, and federal policies are designed to promote teacher quality. Research using student scores on standardized tests confirms the common perception that some teachers are more effective than others and also reveals that being taught by an effective teacher has important consequences for student achievement.

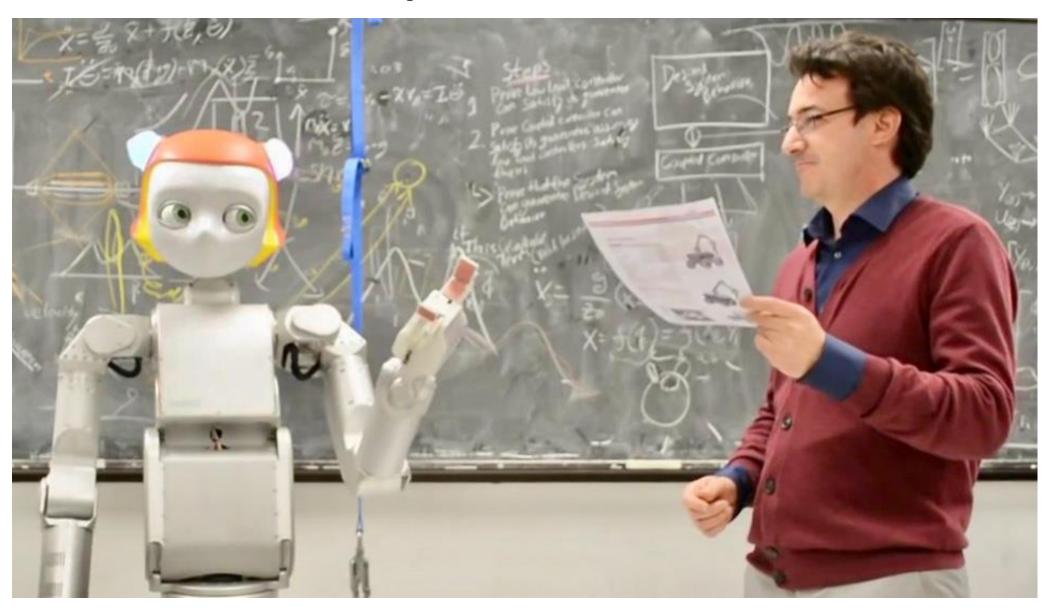




Teachers matter more to student achievement than any other aspect of schooling.

Many factors contribute to a student's academic performance, including individual characteristics and family and neighborhood experiences. But research suggests that, among school-related factors, teachers matter most. When it comes to student performance on reading and math tests, a teacher is estimated to have two to three times the impact of any other school factor, including services, facilities, and even leadership.

So how can AI help?



 Giving machines the ability to seem like they have human intelligence

NOT A TEACHER REPLACEMENT!

Al is an Aide Intelligente!



7/25/2018

Capabilities of AI systems:

 Understanding: Collect, analyze and interpret data

 Decision-making: Take actions to achieve goals

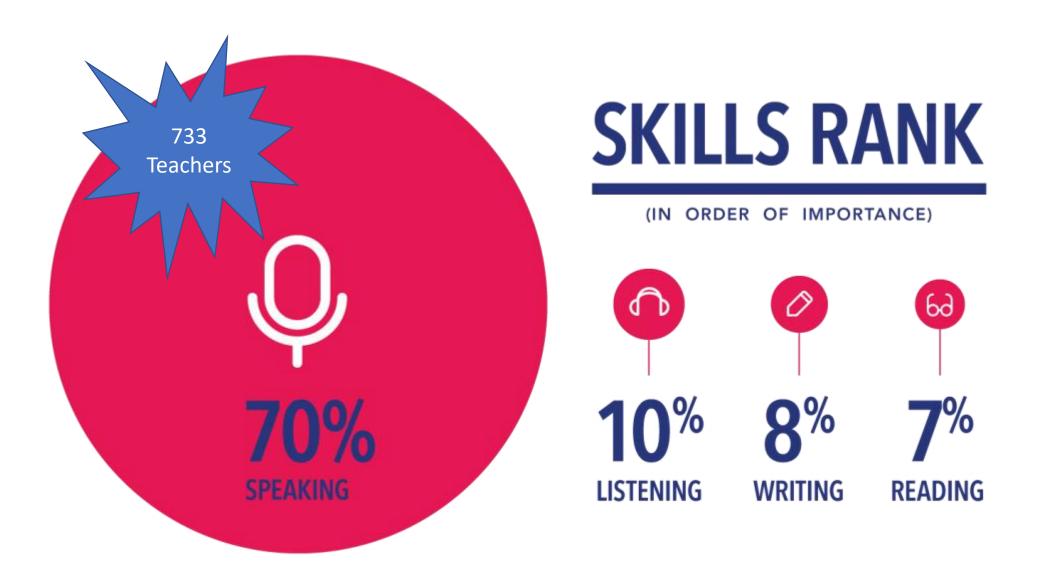
Learning



Example: Learning to speak a foreign language

Nunan (1991) wrote, "success is measured in terms of the ability to carry out a conversation in the (target) language."





7/25/2018

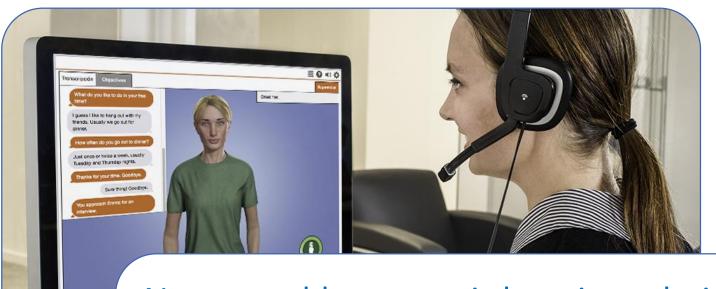
It's hard to teach speaking

- It's hard to set up authentic situations in class
- Teachers must participate, monitor, and provide feedback
- Students can't practice when the teacher is not available





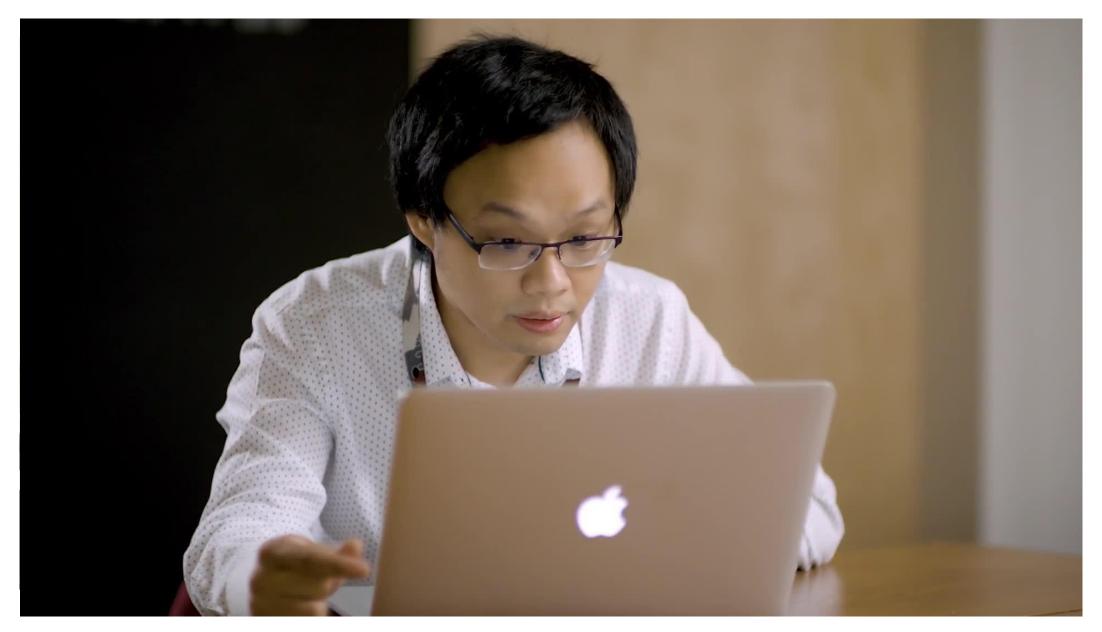
7/25/2018



Al now enables systemic learning solutions

- 1. Immersive practice environments
- 2. Formative assessments
- 3. Feedback
- 4. Personalized learning
- 5. Performance analytics for learners, teachers, & administrators



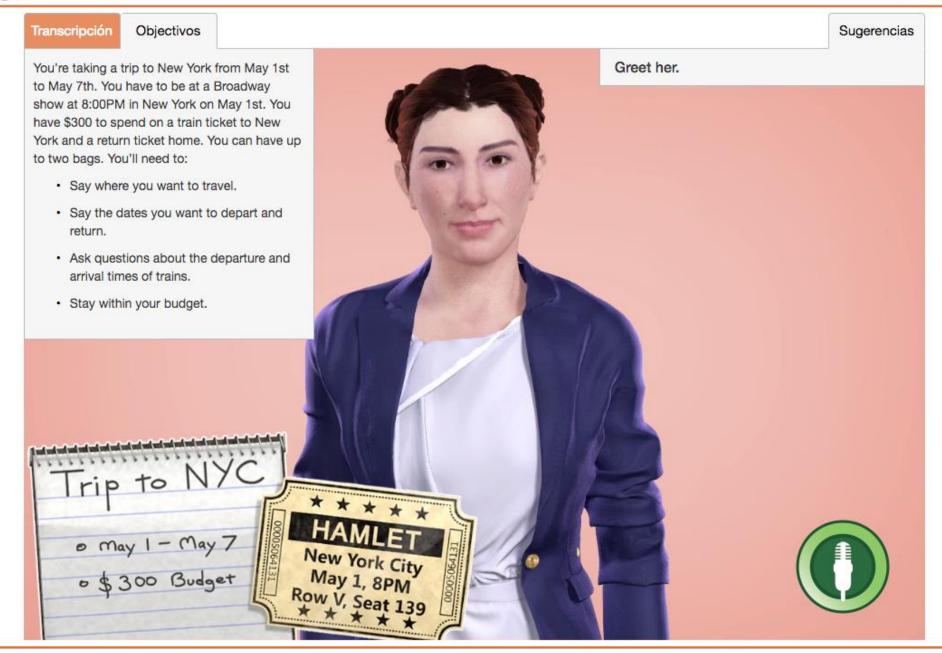


July 25, 2018 15

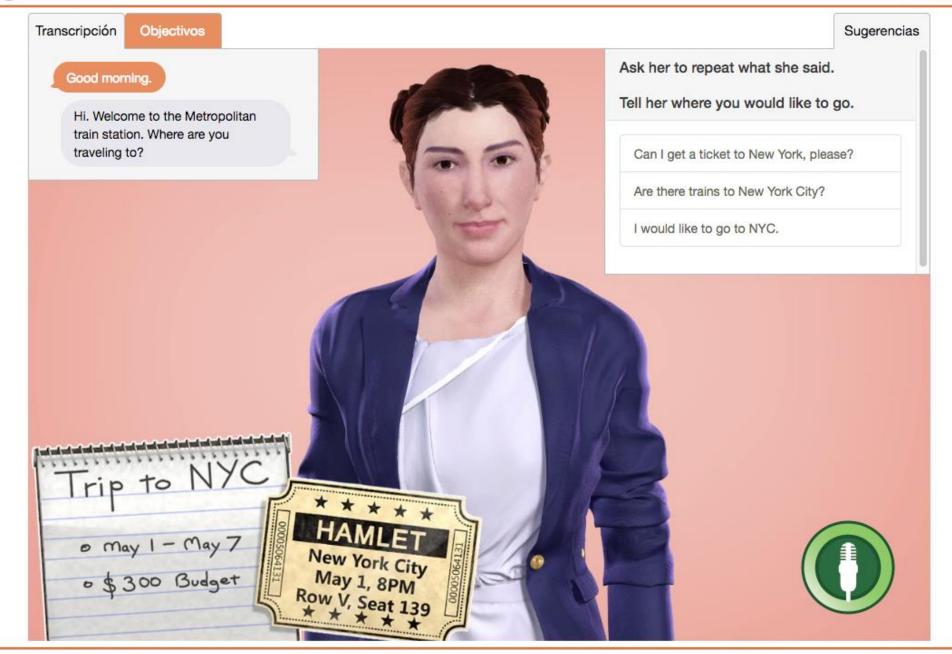
Example: Buy a Train Ticket







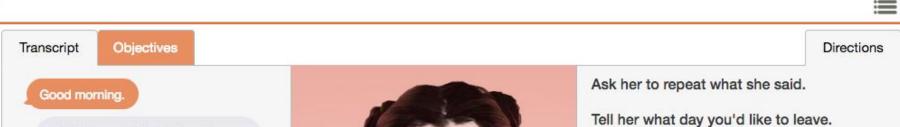












Hi. Welcome to the Metropolitan train station. Where are you traveling to?

I'm going to New York.

Great! I can help you plan your trip to New York. What day would you like to depart?













Objectives

Directions

Good morning.

Hi. Welcome to the Metropolitan train station. Where are you traveling to?

I'm going to New York.

Great! I can help you plan your trip to New York. What day would you like to depart?

I would like to leave on 1st met.

I have a couple of trains that day. Does the train leaving at 2:00 PM work for you?

> New York City May 1, 8PM

Tell her you want the ticket.

Ask if there is another train.

Tell her you don't want the ticket.

Ask how long the trip is.

Ask her to repeat what she said.

Ask when the train will arrive.









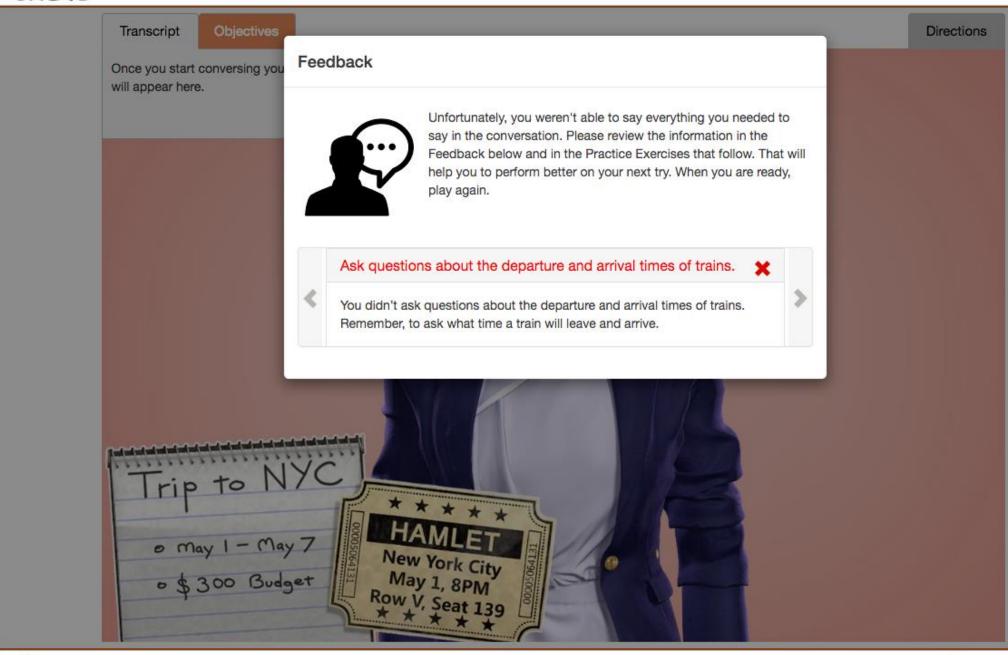














Language Instruction

An adverbial phrase is a group of two or more words that act as an adverb. Adverbial phrases of time describe when or for how long something happens. Here are some common adverbial phrases of time.

00C	On May first	00C	This Saturday / week / month / year
$\Theta \Theta C$	On Monday	$\Theta \Theta C$	Last Saturday / week / month / year
$\Theta \Theta C$	At eight o'clock	$\Theta \Theta C$	Next Saturday / week / month / year
00C	Right now	$\odot \odot \mathbb{C}$	All day / week / month / year
00C	In five minutes / hours / days / weeks / months / years	00C	For five minutes / hours / days / weeks / months / years
$\odot \odot \mathbb{C}$	Before / After the movie	$\odot \odot C$	From May first to May seventh

Back

Forward

Close









Practice Exercise



Ask Emma what time the train will arrive.

Click the Record button to respond.







Outstanding!

You asked what time the train will arrive! I heard: what time will the train arrive

Back

Forward

Close

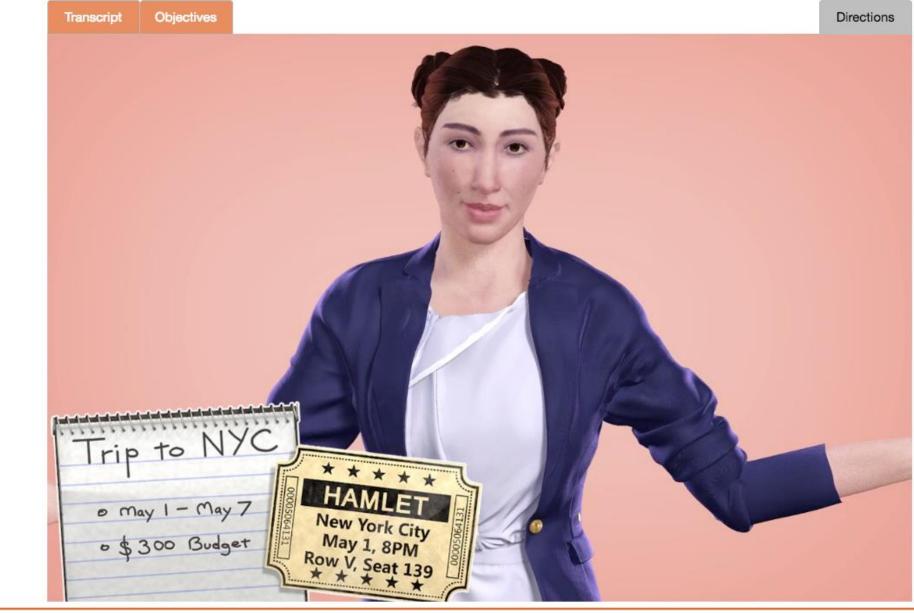












Data-driven development

Collect learner behavior & performance data

Deliver learning product

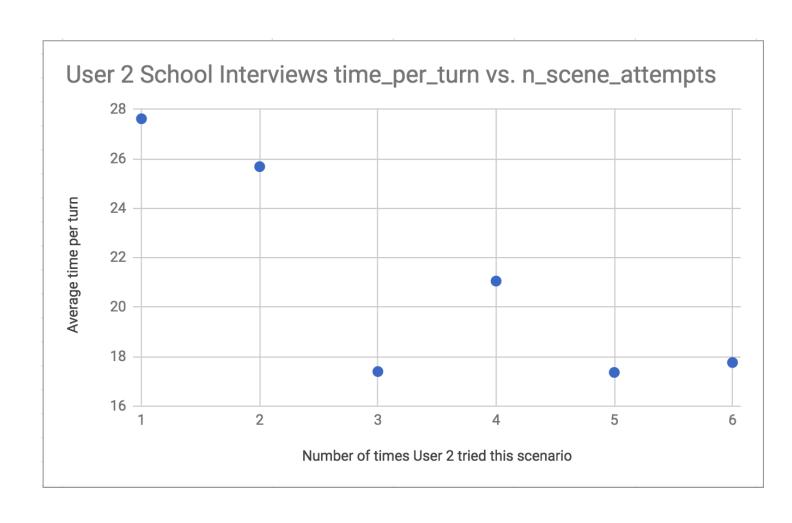
Train AI models – learn, analyze, formulate enhancements

Next: Data-driven teaching

userId 5ac27aa26f86451070c6cd60	institution University of Novi Sad	country Serbia
59ce67779a7a46118cdbe035	University of Novi Sad	Serbia

simulation	completions	full	partial	firstCompletion	lastCompletion
Party Supplies with Emma	1	0	1	4/2/18 20:38	4/2/18 20:38
Helping Owen Plan a Party	1	1	0	4/2/18 20:46	4/2/18 20:46
School Newspaper Interviews	1	1	0	4/2/18 21:28	4/2/18 21:28
Class Interview with Lily	1	1	0	4/2/18 21:36	4/2/18 21:36
Helping Owen with a Recipe	1	1	0	4/2/18 21:44	4/2/18 21:44
Giving Lily Directions	1	1	0	4/2/18 21:50	4/2/18 21:50
Describing a Soccer Match	2	2	0	4/2/18 21:53	4/2/18 21:56
Owen's Summer Vacation	1	1	. 0	4/2/18 22:00	4/2/18 22:00
Lily's Weekend	1	1	0	4/2/18 22:02	4/2/18 22:02
A Road Trip with Owen	1	1	0	4/2/18 22:04	4/2/18 22:04
Party Supplies with Emma	6	1	. 5	11/10/17 22:45	4/4/18 17:20
Helping Owen Plan a Party	6	2	4	11/14/17 21:34	4/4/18 17:23
School Newspaper Interviews	3	2	1	11/14/17 21:38	4/4/18 17:31
Class Interview with Lily	4	3	1	11/14/17 21:41	3/20/18 21:24
Helping Owen with a Recipe	1	1	. 0	11/14/17 22:25	11/14/17 22:25
Giving Lily Directions	2	2	0	11/14/17 22:28	11/15/17 0:50
Describing a Soccer Match	1	1	0	11/14/17 22:32	11/14/17 22:32
Owen's Summer Vacation	1	0	1	11/14/17 22:37	11/14/17 22:37
Lily's Weekend	2	1	. 1	11/14/17 22:41	11/15/17 1:01
A Road Trip with Owen	2	2	0	11/14/17 22:59	11/15/17 0:54

Next: Data-driven teaching



RESEARCH - LATEST INSIGHTS - POLICY EXPERTS - CAPABILITIES - GRADUATE

Measuring Teacher Effectiveness

Teachers Matter

Multiple Choices

Tests and the Teacher

Value-Added Modeling

Student Growth Percentiles

Leadership Matters

FAQ

Experts

Research and Commentary

Contact Us

RAND > Education > Projects and Centers > Measuring Teacher Effectiveness >

Teachers Matter: Understanding Teachers' Impact on Student Achievement

Many people emphasize the importance of good teachers, and many local, state, and federal policies are designed to promote teacher quality. Research using student scores on standardized tests confirms the common perception that some teachers are more effective than others and also reveals that being taught by an effective teacher has important consequences for student achievement.



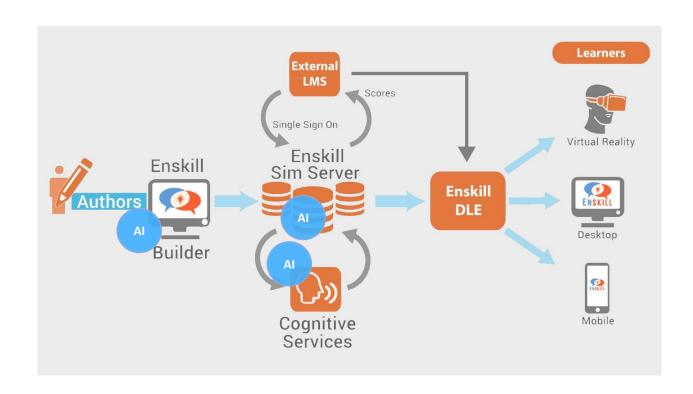


Teachers matter more to student achievement than any other aspect of schooling.

Many factors contribute to a student's academic performance, including individual characteristics and family and neighborhood experiences. But research suggests that, among school-related factors, teachers matter most. When it comes to student performance on reading and math tests, a teacher is estimated to have two to three times the impact of any other school factor, including services, facilities, and even leadership.

Towards an Al-driven learning ecosystem

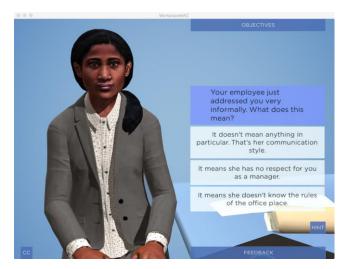
- AI embedded everywhere: data-driven course authoring, course delivery, data collection
 - Integrate Al-driven learning into digital textbooks and other online learning products
 - Leverage advances in AI tools, for learning purposes
 - Support a global community of publishers & content developers using Al-driven tools



Application to a range of soft skills



Language and culture



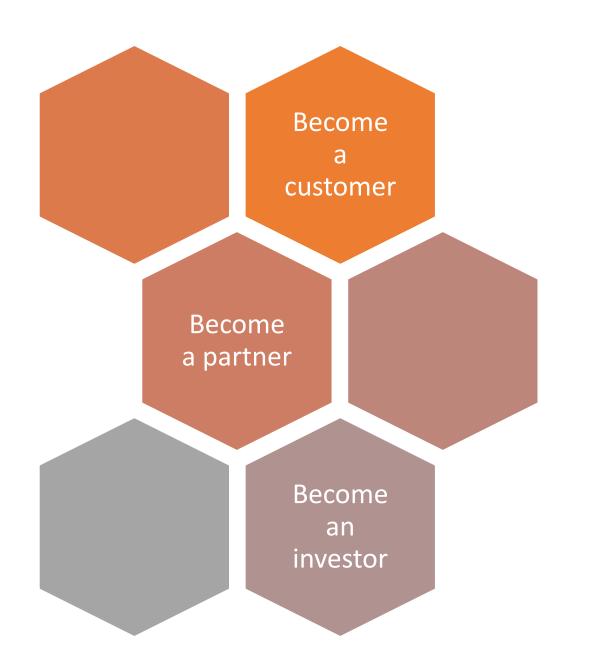
Workplace communication skills



Healthcare & sales communication skills



Teacher training



LEWIS JOHNSON PhD

ljohnson@alelo.com

+1 310 574-7508

KAREN CHIANG

kchiang@alelo.com

+1 925 818 1909

alelo