THINKPAD UNIVERSITY COURSE CATALOG

AI & BIG DATA IN HIGHER ED

Whether it's providing personalized support to students, improving learning tools, identifying potential areas of optimization, or anything in-between, Artificial Intelligence (AI) and big data are crucial to success in Higher Ed. For this edition of the ThinkPad University Course Catalog, we'll take a look at how schools across the country are putting these critical technologies to work for them.

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IMPROVING STUDENT SUPPORT

Georgia Tech
launched `Jill Watson`,
an AI-enabled chatbot[1]

"Once students knew about Jill, they were so motivated, so engaged. I've never seen this kind of motivation and engagement."
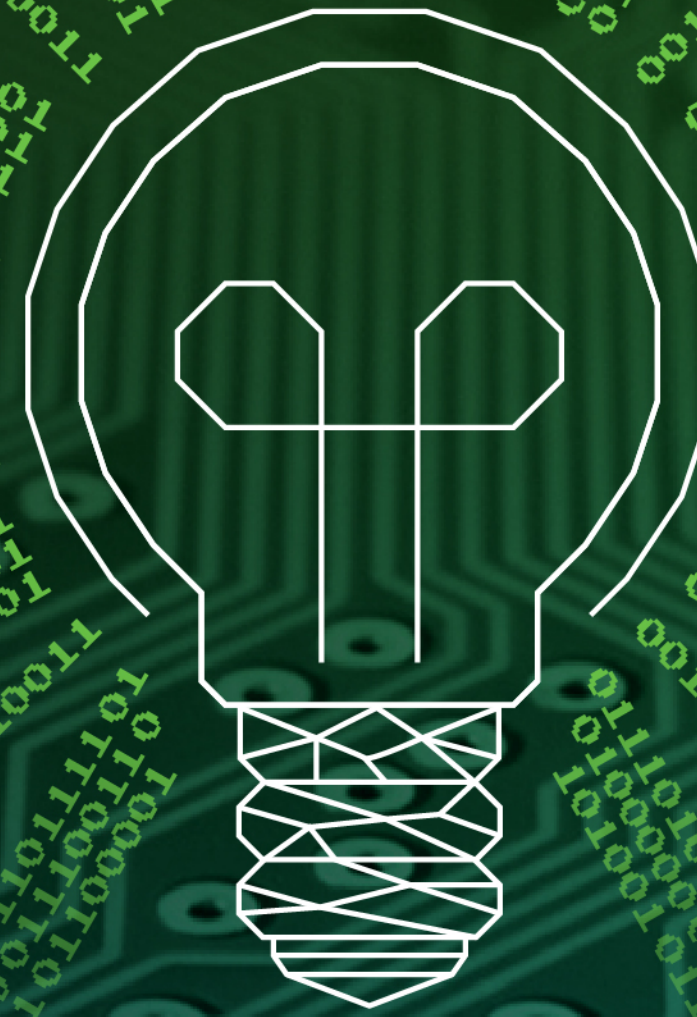
— Professor Ashok Goel, Georgia Tech

97%

Provides **round-the-clock** personalized support for all students[2]

Answers around **10,000** questions per semester[2]

Able to answer with an accuracy rate of **97%**[2]

Learn more at **solutions.lenovo.com/TPU**
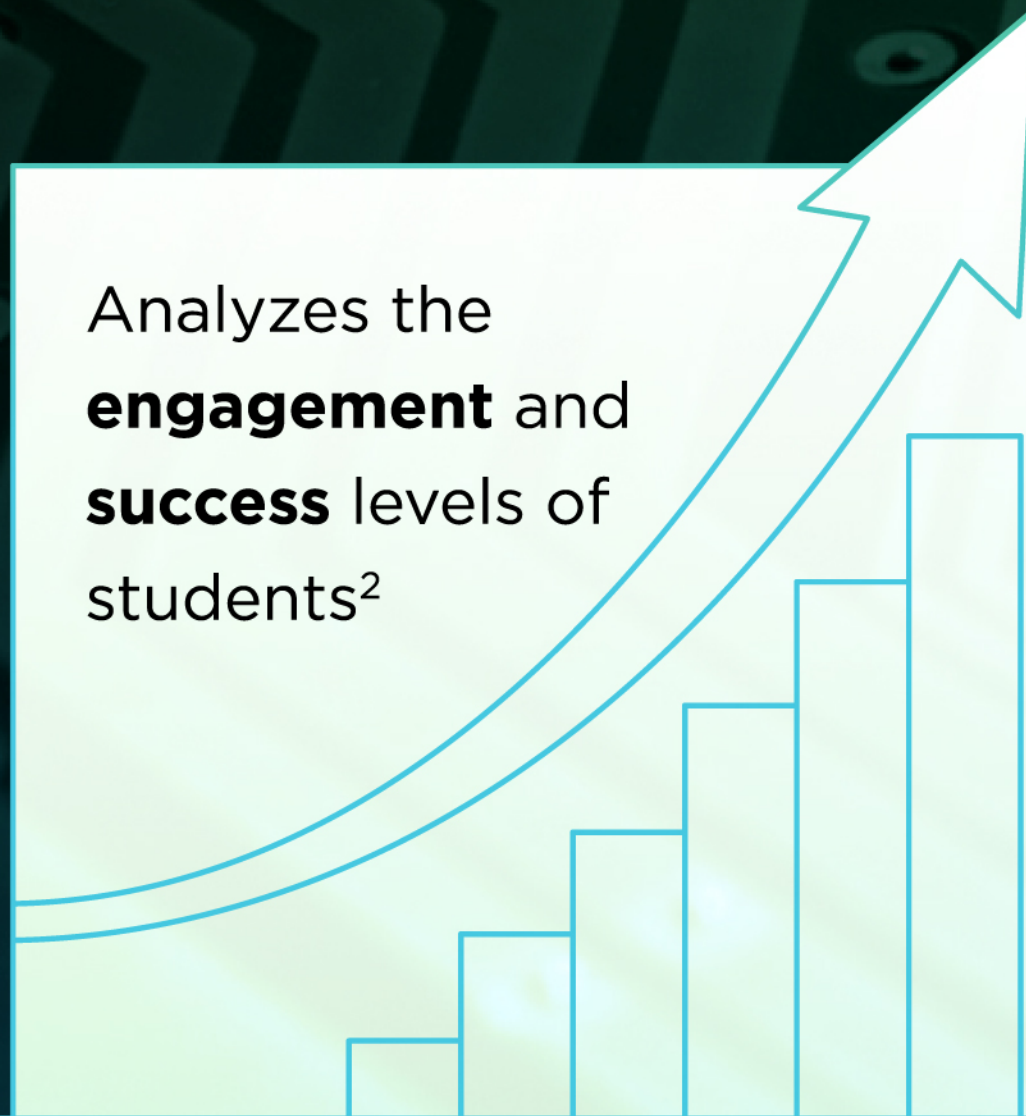
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MAKE THE MOST OF MACHINE LEARNING

Ivy Tech Community College created a machine learning algorithm[2]

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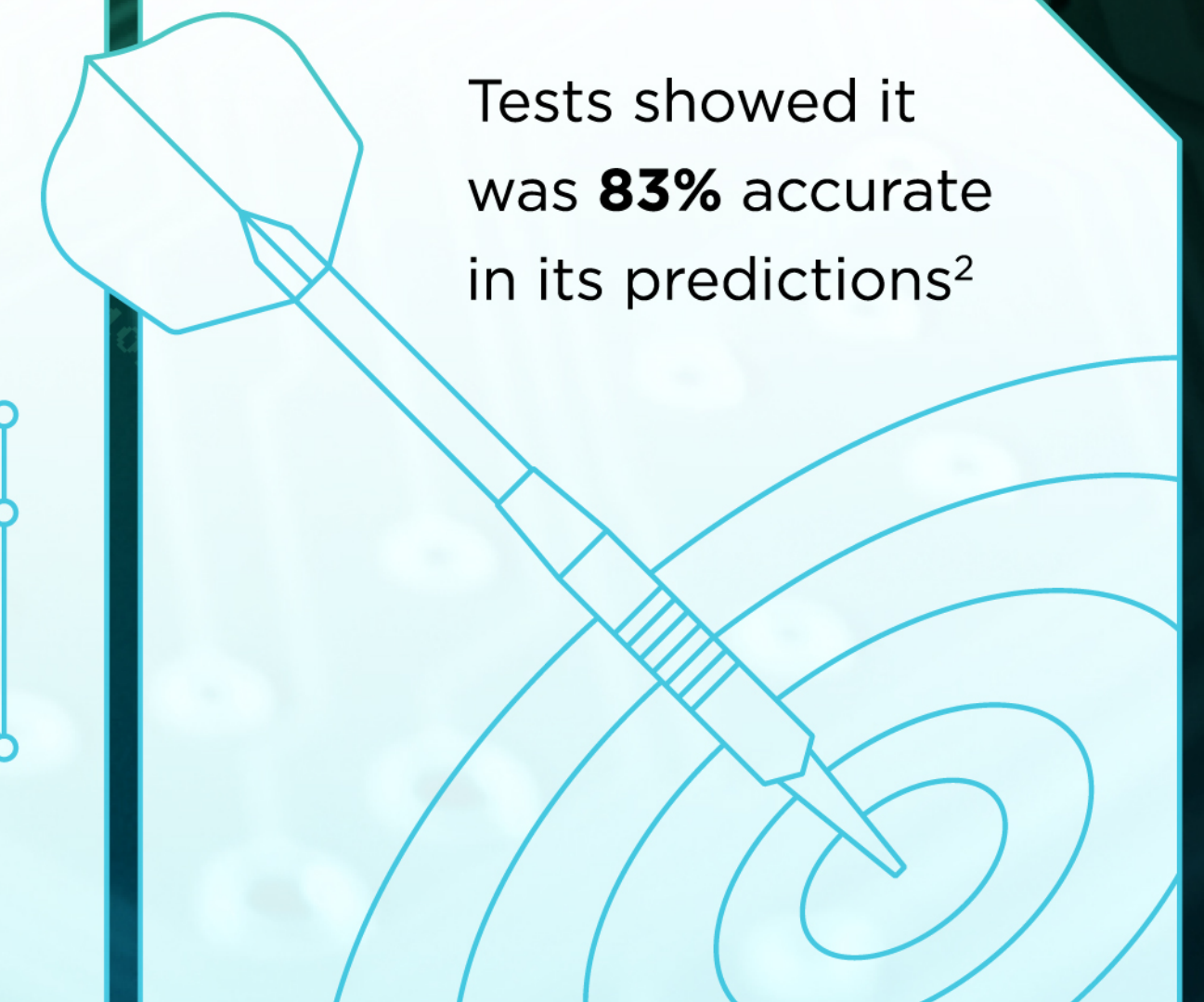Analyzes the **engagement** and **success** levels of students[2]

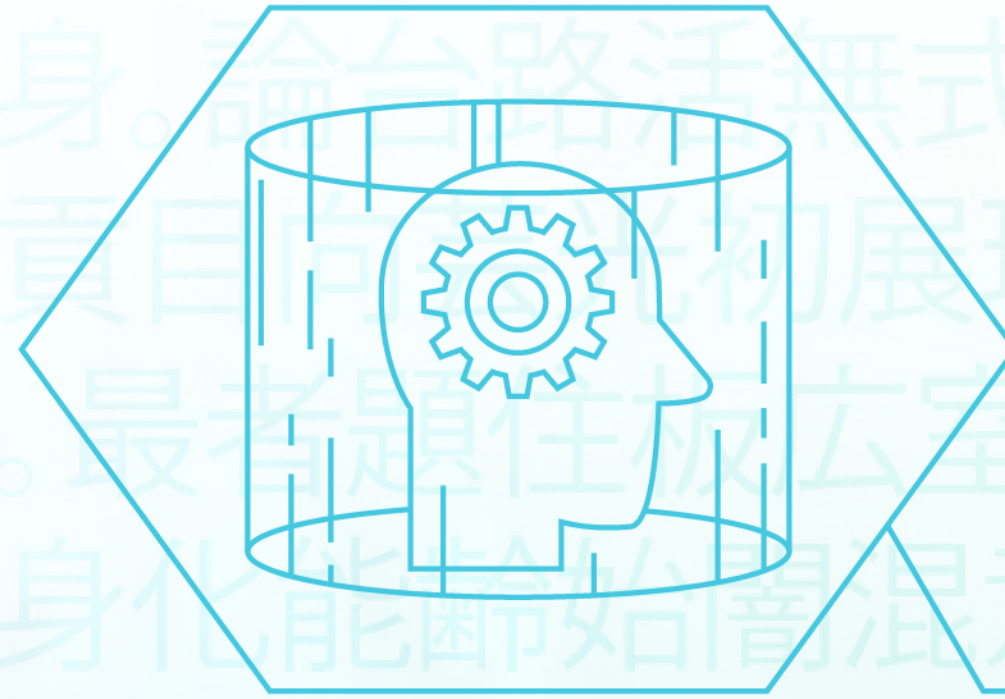Identifies students who require **intervention** or are at risk of **dropping out**[2]

Leveraged **12 million** student interaction data points[2]

Tests showed it was **83%** accurate in its predictions[2]

Learn more at **solutions.lenovo.com/TPU**

AI-ENABLED IMMERSION

Launched the
Cognitive Immersive Room[2]

Students can practice with the
AI chatbot in **real-time**[2]

RPI teamed up
with IBM Research
to help students
learn Mandarin[2]

Allows for various **realistic settings**
such as restaurants or classrooms[2]

Combines **gamification techniques**
with the raw power of AI and big data[2]

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A LOOK AHEAD

WHAT THE EXPERTS ENVISION IS NEXT FOR BIG DATA

Google's Lukman Ramsey expects that Higher Ed institutions will soon be using AI and big data to:

Target prospective students[2]

Effectively engage with applicants[2]

Automate processes with AI assistants[2]

"I truly believe AI, machine learning, and similar tech will be at the forefront of enhancing remote education."

— Paul Mumma,
CEO of Cerego[3]

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DON'T GET LEFT OUT

ENSURE YOU HAVE THE RIGHT TECH FOR THE JOB

- Processors should be a mix of cores that optimize both **performance** and **power efficiency**[4]

- Storage devices should be a mix of hard disk drives (HDDs) that **optimize capacity** and solid-state drives (SSDs) that **optimize speed**[4]

- Memory devices should be a mix of dynamic **random-access** memory (RAM) and **non-volatile** memory (NVM)[4]

- **Heavy-duty** software should be matched with **user-friendly** data analytics and machine learning extensions like Apache Spark and TensorFlow[4]
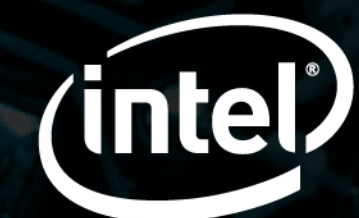
You've seen exactly how big data and AI are being used at schools like yours, what to keep an eye out for in the future, and what tech you need to harness these platforms. Now, it's time to put the future to work for you. Learn more about how your institution can boost success at **solutions.lenovo.com/TPU**.

SOURCES:

[1] https://hbr.org/2019/10/how-ai-and-data-could-personalize-higher-education
[2] https://edtechmagazine.com/higher/article/2020/01/successful-ai-examples-higher-education-can-inspire-our-future
[3] https://www.disruptordaily.com/future-of-ai-education/
[4] https://asunow.asu.edu/20180917-asu-researcher-shifts-big-data-computing-high-gear

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