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Solve intelligence. Use it to make the world a better place.



DeepMind is the world leader in artificial intelligence research and its application for positive impact. We're on a scientific mission to push the boundaries of AI, developing programs that can learn to solve any complex problem without needing to be taught how.

If we're successful, we believe this will be one of the most important and widely beneficial scientific advances ever made, increasing our capacity to understand the mysteries of the universe and to tackle some of our most pressing real-world challenges.

Science team

Science is at the heart of everything we do at DeepMind. From the very beginning, we took inspiration from science to build better algorithms. Now, we want to use our toolkit to accelerate scientific discovery. This multidisciplinary team of researchers and engineers work on innovative projects where AI can impact our fundamental understanding of the physical world. Projects within the Science group explore the potential for AI to enable breakthroughs in biology, quantum chemistry, energy, health and material design; all critical to solving many of the world's most intractable problems.

The Science team welcomes applications from researchers and engineers with expertise in natural sciences, who have experience applying machine learning and are excited about the use of AI for expanding scientific knowledge.



HEAD OF SCIENCE
Pushmeet Kohli

"The Science group at DeepMind is a multidisciplinary team of research scientists and engineers on a mission to enable AI-assisted scientific discovery. Our aim is to leverage DeepMind's core competencies in AI to achieve fundamental breakthroughs in the Natural Sciences."

SCIENCE TEAM BREAKTHROUGH About AlphaFold

Over the past five decades, scientists have been able to determine shapes of proteins in labs using experimental techniques like cryo-electron microscopy, nuclear magnetic resonance or X-ray crystallography, but each method depends on a lot of trial and error, which can take years and cost tens of thousands of dollars per structure. This is why biologists are turning to AI methods as an alternative to this long and laborious process for difficult proteins.

The success of our first foray into protein folding is indicative of how machine learning systems can integrate diverse sources of information to help scientists come up with creative solutions to complex problems at speed. Just as we've seen how AI can help people master complex games through systems like AlphaGo and AlphaZero, we similarly hope that one day, AI breakthroughs will help us master fundamental scientific problems, too.



HEAD OF DEEPMIND FOR GOOGLE
Praveen Srinivasan

"As a dedicated team we act as the bridge between DeepMind's cutting-edge research and Google's large scale products built on state of the art technologies. Our multidisciplinary team of researchers and engineers focus on delivering real world impact to millions of people as well as advancing DeepMind's AI research on real-world problems."

DeepMind for Google team

With teams based in London and Mountain View, California, DeepMind for Google works on a variety of applications of machine learning. The impact of the team's work is broad: from optimising energy efficiency at Google's data centres (leading to average reductions in electricity consumption of 30%), to developing WaveNet (which is now in the hands of Google Assistant and Google Cloud Platform users around the world), to on-device learning to optimise Android battery performance.

Working at Google scale affords the unique opportunity to apply ground-breaking research outside the lab to truly global and complex problems. In doing so, the team demonstrates the benefit of further improving computer systems already highly optimised by top computer scientists to achieve tangible and positive real world impact.



RESEARCH SCIENTIST,
SCIENCE

John

"After working on long molecular dynamics simulations for proteins and supercooled liquids, I focused my PhD on machine learning models for protein dynamics. I lead the development of AlphaFold models, and act as a domain expert to ensure that our protein work contributes to important problems in the field. DeepMind is an incredible place to work on hard scientific problems using the cutting edge of machine learning research."

Meet members of our team

RESEARCH ENGINEER,
DEEPMIND FOR GOOGLE

Ingrid

"I've always been interested in using mathematical ideas to solve real-world problems. I completed a PhD in Applied Maths before joining Google and then the DeepMind for Google team to work on machine learning algorithms. I really enjoy the collaborative atmosphere where I get to work with researchers and engineers across different fields and domains."



Case study: WaveNet

How a fundamental research effort led to real world impact through DeepMind for Google



September 2016:
Published first
WaveNet paper



May 2017:
First product to launch
on Google's latest TPU
cloud infrastructure



November 2017:
Paper on new
WaveNet model (Parallel
WaveNet) released



New WaveNet model is
developed (1000x faster
than original)



October 2017:
WaveNet launches in the
Google Assistant



April 2019:
John Legend becomes the
first celebrity assistant voice
thanks to WaveNet

DeepMind

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