DeepMind

Science & DeepMind for Google

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."
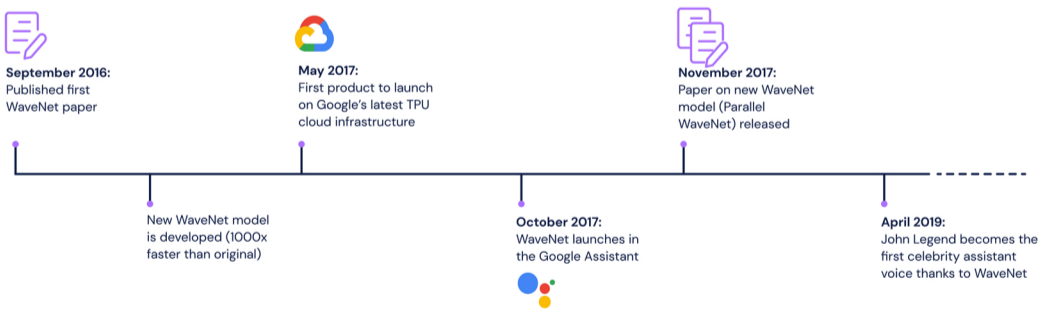

HEAD OF DEEPMIND FOR GOOGLE
Praveen Srinivasan

"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.

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

Meet other members of the team

HEAD OF SCIENCE
John

"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."

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."