HOW AI ACCELERATES INNOVATION **AGAINST** COVID-19









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MEET OUR TEAM



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01. POTENTIAL OF HEALTH AI

Industry Landscape of AI in Healthcare







02. COMBAT COVID-19



From prevention to diagnosis

Al mitigates existing innovation barriers



01. PREVENTION

From disinfection robots to thermal scanners

02. DIAGNOSIS

From diagnosis chatbots to smart CT scans

03. CURE

From remdesivir to breakthrough vaccines

04. MODELLING

Predictive data about the spread

AI-Powered Prevention Innovations



DISINFECTION ROBOTS

LiDAR sensor technology



THERMAL SCANNERS

body detection, face detection, and dual-sensing

Rapid Diagnosis

01. AI detects asymptomatic Covid-19 infections through cellphone-recorded coughs ·

02. Chest CT can detect early COVID-19 in patients with a negative RT-PCR test







Source: MIT, Nature.

Computational predictions of protein structures associated with COVID-19



CASP14 protein-folding contest



Source:Deepmind





Source: IEEE spectrum



03. CHALLENGES OF HEALTH AI

How to build trust and overcome algorithmic bias

Lack of Trust towards AI for healthcare



Create transparency to build trust and confidence



Minimise algorithmic bias is key to instil trust



Source: McKinsey & Co.

04.



GREEN AI

AI with less carbon footprint



Training a single AI model can emit as much carbon as five cars in their lifetimes.

-Dr. Emma Strubell, Visiting Researcher at Facebook AI Research

Carbon footprint due to popularity of deep learning



Few published papers that targeted efficiency





05. FUTURE DIRECTION

Next steps on how we could build greener AI





