



which markets and jobs will be impacted by AI ?

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50% of occupations today will no longer exist in 2025: Report

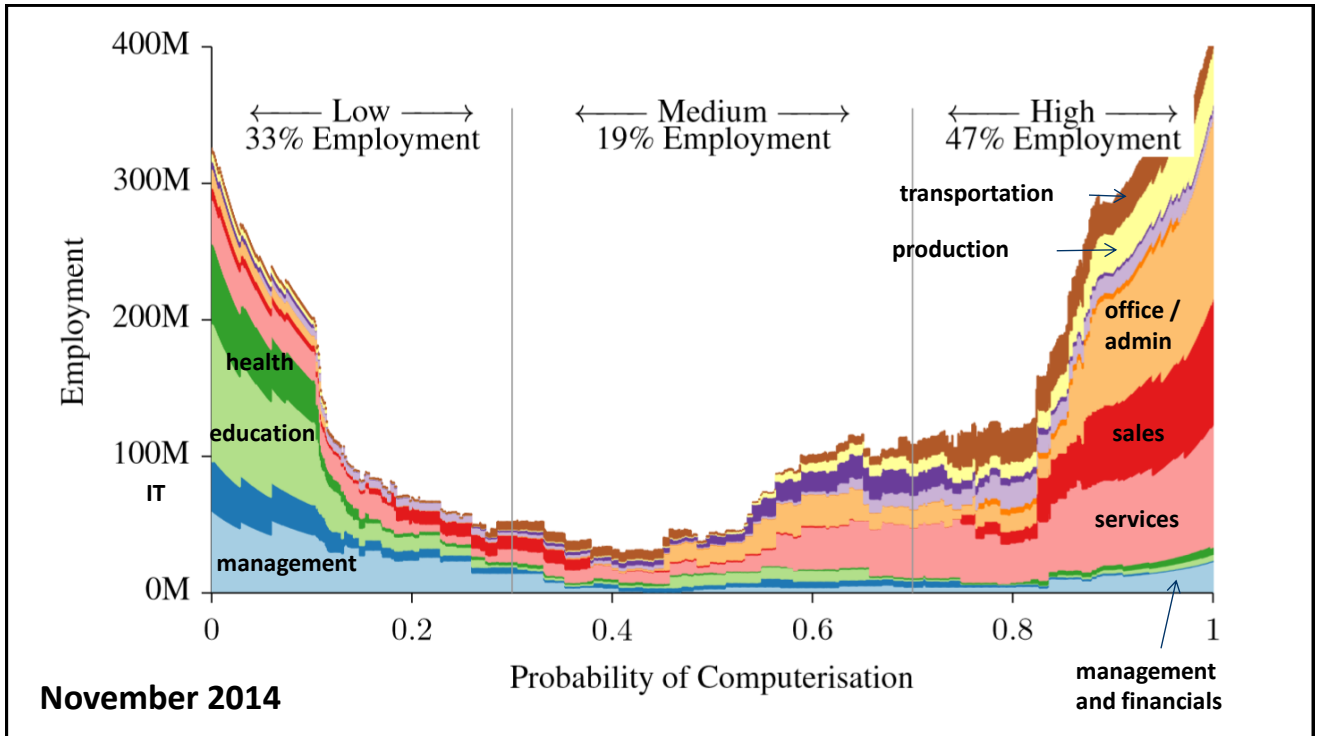
Workspaces with row of desks will become completely redundant, not because they are not fit for purpose, but simply because that purpose no longer exists, the report predicts

Press Trust of India | Mumbai
November 7, 2014 Last Updated at 21:40 IST

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ROBOTS, AI WILL REPLACE 7% OF US JOBS BY 2025

JUNE 22, 2016

Forrester forecasts that cognitive technologies such as robots, artificial intelligence (AI), machine learning, and automation will replace 7% of US jobs by 2025.

A new report details the emerging best practices for augmenting “cubicle work” (which represents 89 million US jobs) with cognitive solutions and how companies can adapt for the changing workforce.

June 2016

key AI application characteristics

mostly automatic pattern detections...

speech, images, videos

user behavior

user segmentation

requires lots of data + computing power

big datasets

IOT networks

cloud servers

Object Recognition (Krizhevsky, Sutskever, Hinton 2012) Y Lec6n MA Ranzato



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Machine Learning-Gen (123 Companies) Digital Reasoning, bigml, iActive, tryo-labs, Predictix, sentiment, Popyago, SI, cyclop, SKYFREE, GASP LAB, Technonics	Machine Learning-App (260 Companies) siftscience, is, IPONWEB, VOLTAIRI, Sense Networks, Coonly, Symplify, Digital	Computer Vision-Gen (106 Companies) cortica, Cognitive, AlchemyAPI, Descartes Labs, clarifai, EMOTION, blippAR, imago, HV	Computer Vision-App (83 Companies) flyby, quikkly, percip, SNAP, Poletty FASHION, face	Smart Robots (65 Companies) anri, jibo, MONSIEUR, ALDEBARAN, iRobot, IXI, PLAY, harsco
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key AI startup domains

deep learning: Numenta, Sentient, Metamind, Skymind, Synapsify

predictive analysis: Context Relevant, Work Fusion, Skytree, Sentenai

visual search: Vicarious, Clarifai, Cortica, Superfish, Deepomatic

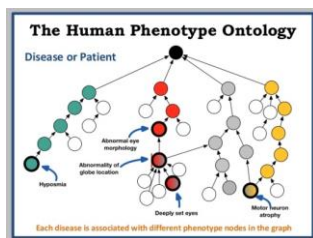
chatbots: Existor, Msg.ai, Semantic machines, Jam, Recast.ai

vertical apps: healthcare, finance, ecommerce, marketing, HR, legal, education, agriculture, cybersecurity

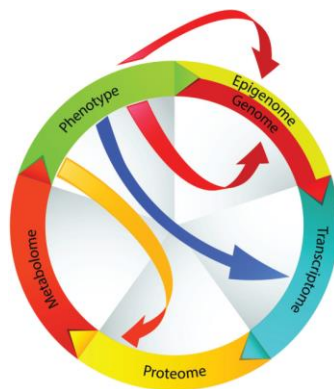
AI in healthcare potential



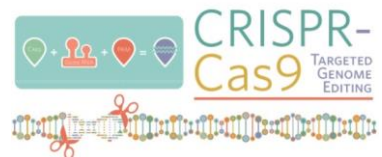
DNA+RNA sequencing



phenotyping



data analysis

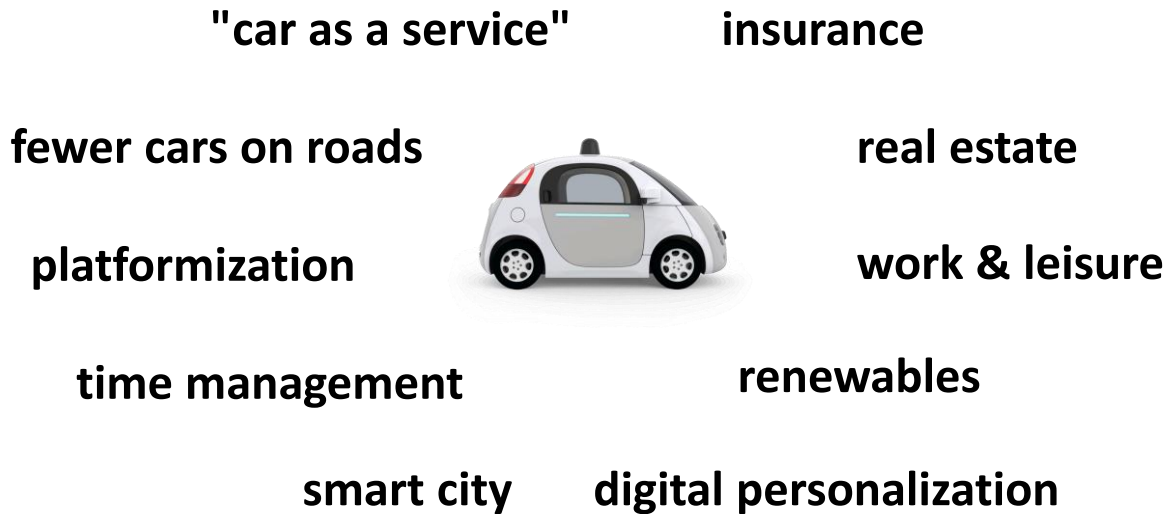


DNA edit + print

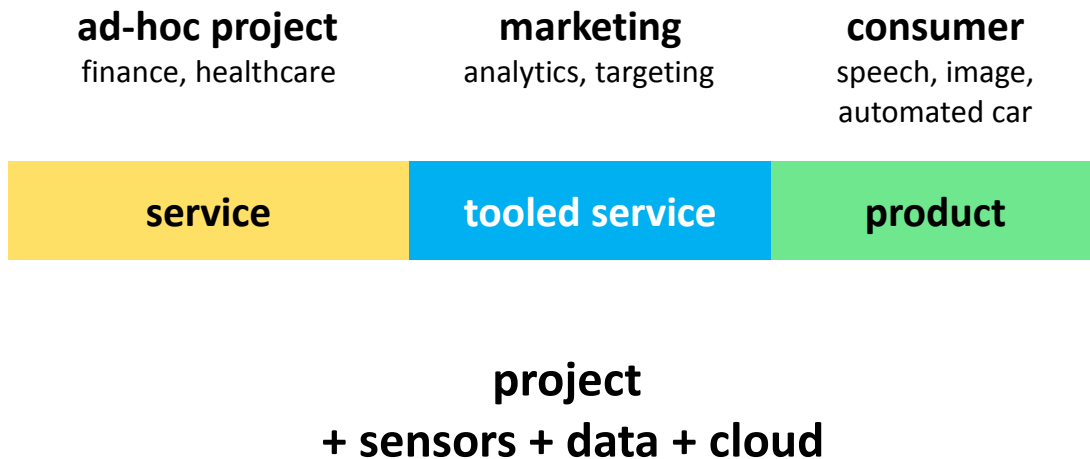


genome based therapies

automated cars value migration tsunami



AI business models



what AI may do someday

higher-level abstraction handling

broad patterns detection across different domains

better understand its environment

emotions and creativity

autonomous human-like robots



various impacted services jobs

cashiers

CPAs

factory workers

finance

drivers

notaries

lawyers

teachers

doctors

civil servants

sales people

not just with AI, but also with...

- traditional automation
- IOT
- BlockChains
- telecommunications

seven dynamics of AI based automation

- 1. AI productization**
- 2. common worldwide job practices**
- 3. job repetition and ease of encoding**
- 4. supply of skills and professionals**
- 5. regulations opened to innovators**
- 6. part of the work also transferred to customers**
- 7. invested capital**

a societal imperative

governments can drive AI investment towards key issues :

healthcare

environment and energy production

transportation

increase education efforts, in university level education

foster innovation, and not just with startups