which markets and jobs will be impacted by AI?

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Paris, OECD, November 17th, 2016

Business Standard

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

November 2014
November 2014

Probability of Computerisation

Employment

Low 33% Employment
Medium 19% Employment
High 47% Employment
transportation
production
office / admin
sales
services
management and financials

November 2014
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
**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

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**AI in healthcare potential**

- DNA+RNA sequencing
- phenotyping
- DNA edit + print
- data analysis
- genome based therapies
automated cars value migration tsunami

"car as a service" insurance

fewer cars on roads real estate

platformization work & leisure

time management renewables

smart city digital personalization

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AI business models

ad-hoc project
finance, healthcare

marketing
analytics, targeting

consumer
speech, image, automated car

service

tooled service

product

project
+ sensors + data + cloud
what AI may do someday

higher-level abstraction handling
broad patterns detection across different domains
better understand its environnement
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