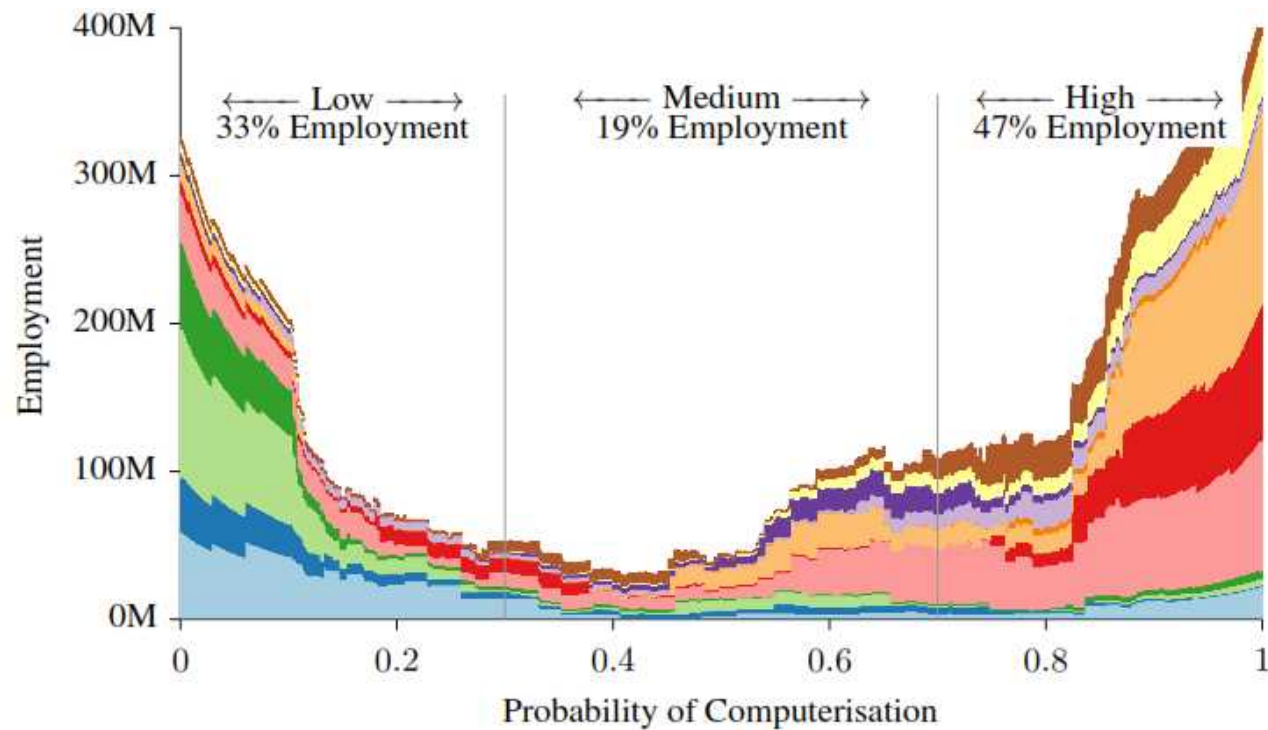
A photograph of Earth from space, showing a curved horizon with a bright blue sky and a dark, cloud-covered surface. The image is used as a background for the text.

Living with robots: the future social impact of AI

Dr Anders Sandberg
Future of Humanity Institute
University of Oxford





| |
|--|
| Management, Business, and Financial |
| Computer, Engineering, and Science |
| Education, Legal, Community Service, Arts, and Media |
| Healthcare Practitioners and Technical |
| Service |
| Sales and Related |
| Office and Administrative Support |
| Farming, Fishing, and Forestry |
| Construction and Extraction |
| Installation, Maintenance, and Repair |
| Production |
| Transportation and Material Moving |

| Variable | Probability of Computerisation | | |
|---------------------------------|--------------------------------|--------|---------|
| | Low | Medium | High |
| Assisting and caring for others | 48±20 | 41±17 | 34±10 |
| Persuasion | 48±7.1 | 35±9.8 | 32±7.8 |
| Negotiation | 44±7.6 | 33±9.3 | 30±8.9 |
| Social perceptiveness | 51±7.9 | 41±7.4 | 37±5.5 |
| Fine arts | 12±20 | 3.5±12 | 1.3±5.5 |
| Originality | 51±6.5 | 35±12 | 32±5.6 |
| Manual dexterity | 22±18 | 34±15 | 36±14 |
| Finger dexterity | 36±10 | 39±10 | 40±10 |
| Cramped work space | 19±15 | 37±26 | 31±20 |

The future of employment: how susceptible are jobs to computerisation? Carl Benedikt Frey, Michael A. Osborne, 2013

Safety



Warning: This device
may start at any time
because it *wants* to.

Intelligence

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- When algorithms show the wrong emergent properties



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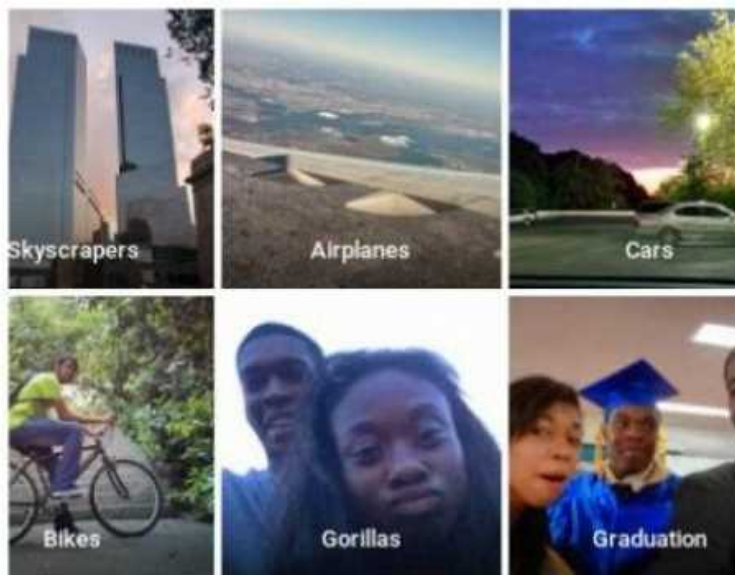
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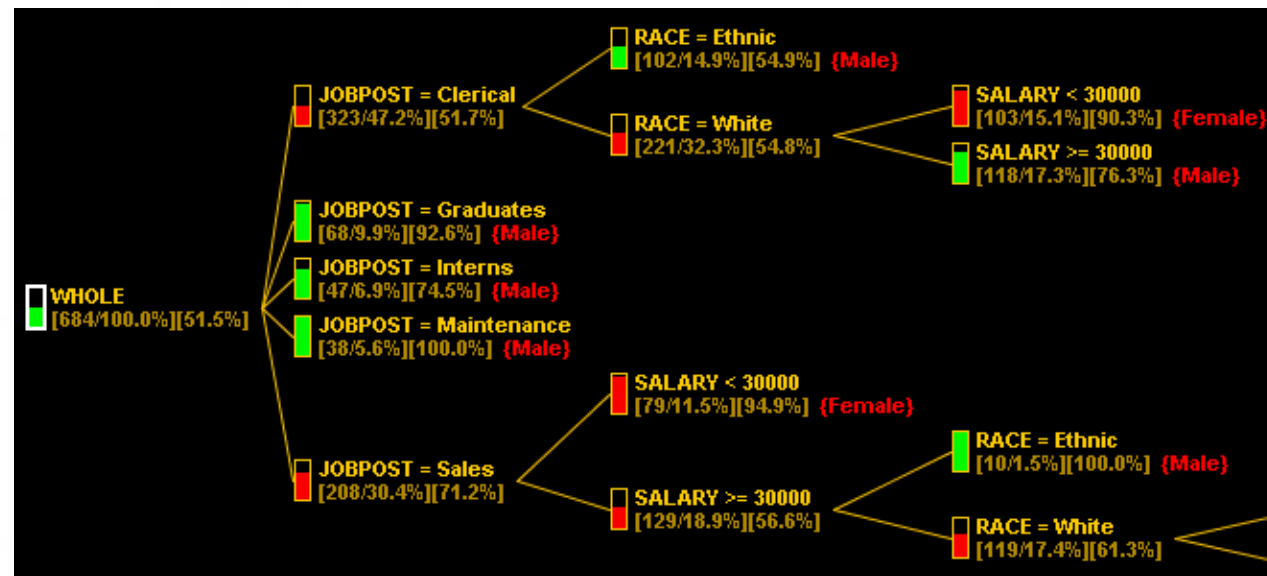
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Google mislabelling, prejudiced networks

- When algorithms learn wrong or in biased ways



Jacky Alciné via Twitter



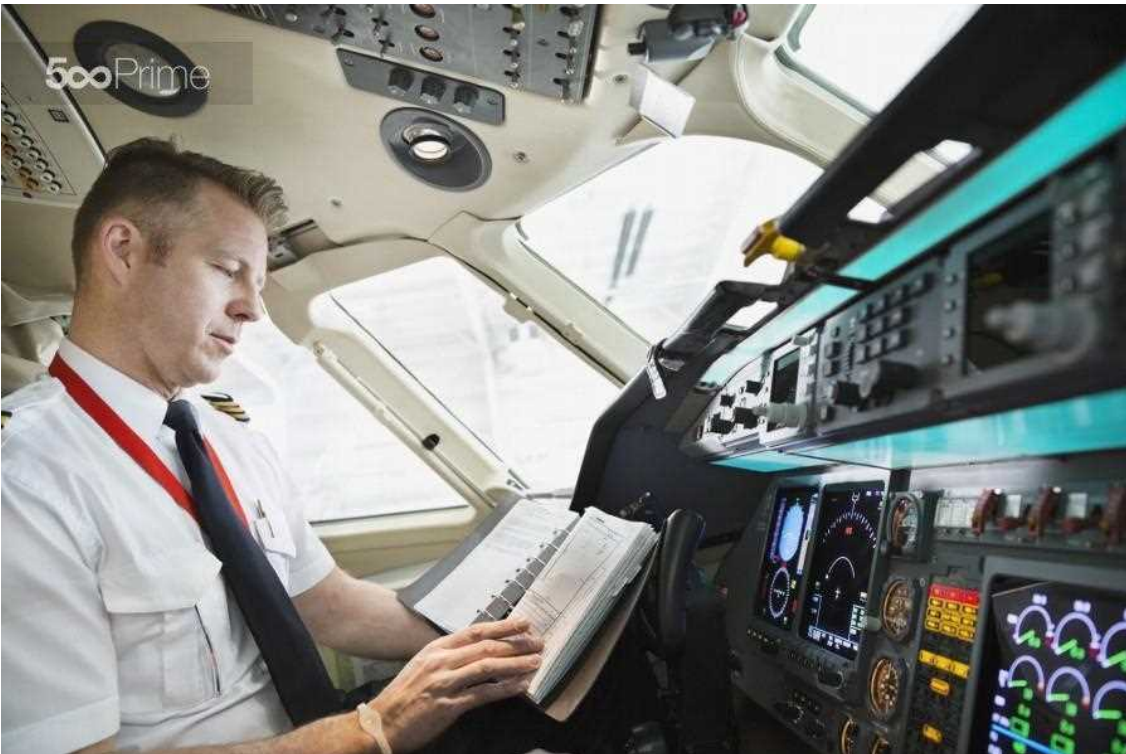
Spamming and fake books

- Automating bad behaviour



Autopilots and oil platforms

- Human dependency and faith in automation



Orthogonality between intelligence and goals



Convergent instrumental goals



Complexity and fragility of value



