

Impact of AI on Employment

Joy Liddicoat
University of Otago
30 October 2018

Overview

- ▶ The future of work
- ▶ Key themes
- ▶ Professions
- ▶ Prospects and challenges

Future of work

- International Labour Organisation
- OECD
- World Economic Forum
- European Union

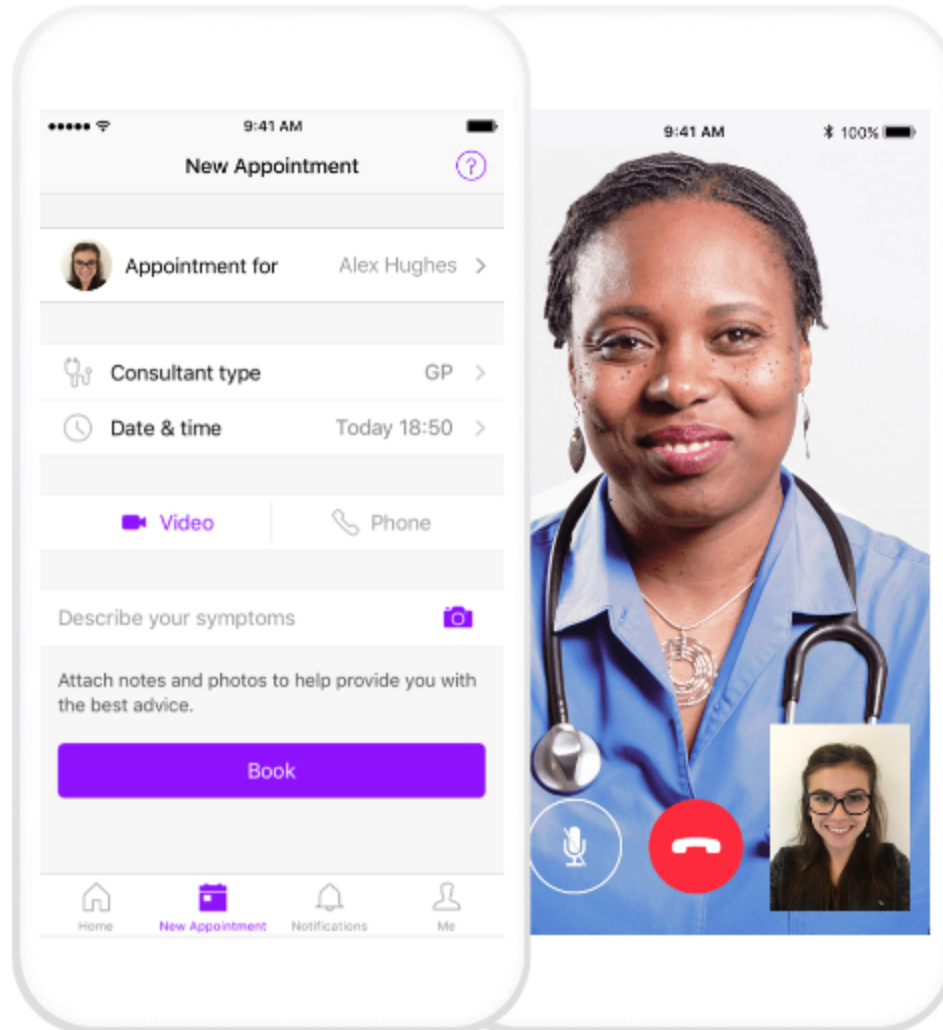


Key themes

- ▶ Jobs will change: >33% of jobs 'at risk' of automation (Germany 35%, USA 38%, United Kingdom 30% and Japan 21%. Many new jobs will be created.
- ▶ Net impact: job growth?
- ▶ Automation will change job types, their number and perceived value.
- ▶ Workers performing tasks that cannot be automated will become more valuable, as will they skills they have.

Impact of AI ...

- ▶ Across labour market eg driverless cars
- ▶ Focus on:
 - ▶ Education
 - ▶ Medicine
 - ▶ Journalism
 - ▶ Law



Download now

GP at hand is powered by babylon, the UK's leading digital health provider. Download the app now from Google Play or App Store for access to GP at hand on your mobile.

When registering for the NHS GP at hand service, you will be able to get NHS prescriptions and free GP consultations.



GP at Hand

- Artificial intelligence in health
- Contracts with the NHS
- AI medical service is embedded in Samsung phones in the US
- CEO Ali Parsa rejected doctors criticism that Babylon's claims are not peer-reviewed and that its app may be having a negative impact on GP practices



Education

- ▶ Intelligent Tutoring Systems
- ▶ Personalised learning
- ▶ Personalised testing
- ▶ Task automation: attendance, generating exam questions, grading

Journalism

- ▶ Generating news content
- ▶ Assistants for journalists eg Replika
- ▶ Automated and semi-automated fact checking
- ▶ Reporting live events eg Dreamwriter
- ▶ Moderation of comments: Google-Offshoot Jigsaw

Law

- ▶ Drafting contracts
- ▶ Document review and summary
- ▶ Generating draft issues based on document review
- ▶ Litigation outcomes predictive assessment

Prospects and Challenges

- ▶ Avoiding bias and discrimination
- ▶ Protecting privacy
- ▶ Employment law eg redundancy
- ▶ Will new or extended legal concepts be needed e.g. “electronic personhood”, agency, causation
- ▶ Will new rights emerge e.g. the right to human interaction
- ▶ Will new ethical and legal standards be needed e.g. for those using AI in decision-making

New Zealand

- ▶ Future of Work Forum 2018
- ▶ Generally more positive stance towards new technologies
- ▶ AI Forum summary
- ▶ Regulatory issues: professional standards, regulator preparedness, privacy law reform