Week VI: Ethics in innovation

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Starting Questions

- What is ethics?
- Example of ethical/unethical behaviour of yours in your personal life?
- When is it difficult to determine the choice of behaviour?
- Is ethics about others or is it about me?
- Behaving ethically in a largely unscrupulous society?
- What about ethics in academic responsibilities?
- What about ethics in projects?
- How may of you feel you marked yourself ethically on individual contribution of formative assessment?
- Ethics as an internal dialogue.
- Ethics do not suddenly become important in life when you are 30 years, it starts from very beginning.

Discussion

- pesticides kill parasites but also pollute the water supply.
- Application of new surveillance technologies to increase workplace productivity and safety.
- Think of nuclear weapons.
- Cambridge Analytica. Facebook.
- Autonomous Driving Cars.
- Ethics and Advertisement.

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Introduction

- Innovation is very much an ethical matter because ethics is fundamentally concerned with anything that can promote or hinder human wellbeing.
- Innovation is not just technological or economical, but also ethical and social.
- The extension and enriching of human lives are good goals, which in turn makes innovation generally a good thing.
- Innovation isn't just a 'good,' but a downright moral obligation.
- Hence the recent interest not just in innovation, but in managing innovation.
- Is this platform/product actually providing a social good?
- Am I harming the user in creation of this solution?

Best Practices in Innovation

- Impact : How much difference will the innovation make in the field it is suggested?
- Appropriateness: Will it be socially, culturally, politically acceptable?
- Burden: Will it address the most pressing needs in the area?
- **Feasibility**: Can it be realistically developed and deployed in a time-frame of 5-10 years?
- **Knowledge Gap**: Does it create new knowledge?
- Indirect benefits: Does it address issues such as environmental improvement and income generation?

• Diffusing a new innovation requires understanding the local environment. Social, economic, and cultural environments vary greatly across and even within countries, and deploying new programs requires an understanding of these environments. Innovators must consider the need for expertise in sociology, anthropology, public policy, and economics, and establish coherent criteria for selecting countries to target based on social, economic, and cultural realities.(2) An invention always engages closely with cultural practice and systems, and it must already have a close relation to the contingencies that surround it and that will influence its fate.

Ethical Frameworks for Innovation

- Utilitarianism: The greatest good for the greatest number
- Rights: An Individual's rights should not be violated
- Moral motivation leads to moral imagination, which is why great innovative social companies have come about from thinking of how to make the world a better place, in finding a solution to world poverty or creating employment for disabled.

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User data and ethics

- Today the Big Four (Amazon, Google, Apple, and Facebook) hold the majority of user data (an estimate of 1,200 petabytes – that's a staggering 1.2 million terabytes).
- Ethics are not just important, but crucial to turning these powerful algorithms in favour of humans.
- Machines learn ethics through code that it is programmed for.
- The Internet is only 37 years old. So, you can imagine the pace of innovations in the world of AI.
- Without ethics, a field that is so fast paced would mean disaster if put into the wrong hands.
- It is not that the technologists are neglecting their responsibility to society, but that they are not aware of methods to properly evaluate the impacts of their technologies.

Recommended Readings

- When Innovation and Ethics Collide
- America Needs to Align Technology With a Public Purpose
- Cell-Phone Addiction: A Review
- Apple's Unethical Innovation
- Unethical Innovation: On the Technocracy and Uneducated Engineers via Medium
- Organizations Appear More Unethical than Individuals

Along with the ability to make great change came great responsibility

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