AI Section 4: Ethics in AI - Part II: Perspective and Diversity

Name: Date:

What are the Benefits of Diversity in AI?

1. How do you think a rapidly changing field such as Artificial Intelligence can benefit from having a more diverse community of developers?

Answer:

2. Why do you think having different perspectives is important when developing a product or working on a Team? How does diversity help achieve this?

Answer:

What is the "Diversity Crisis" in AI?

1. What aspects of AI is this likely to impact? How can bias be introduced through lack of representation?

Answer:

2. How do you think we can enforce or establish regulations/principles to combat bias and uphold AI ethics in general?

Answer:

Establishing Ethics in AI

3 Basic Ethics Principles

Created in 1978 by the "National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research", The Belmont Report highlights three basic Ethics Principles that we will discuss in further detail:

1. Respect for Persons

2. Beneficence

3. Justice

Respect for Persons
- People should be treated as if they are capable of pursuing their own personal goals and able to act on their own.
- Individuals who are impaired and as a result lack this capability should be protected or, at a minimum, made aware of any possible consequences.

Beneficence
- People should not only be kept from harm, but there is an obligation that their "well-being" should be secured.
- In general, no harm should be done to individuals and possible harm should be minimized while possible benefits should be maximized.

Justice
- Each person should possess an equal share of burdens and benefits.
- Benefits and burdens should further be adjusted based on:
  - The need of the individual
  - The effort exerted by the individual
  - The societal contribution of the individual
  - The merit (goodness or excellence) of the individual

1. Do you agree with these basic principles? Is there anything you would get rid of or change?

Answer:

2. How do you think these principles can be applied to ethics as it pertains to Artificial Intelligence?

Answer:

Approaches for Establishing Ethics in AI

Governance

- This approach includes companies establishing their own quality assurance and standards concerning the collect of data and incorporating data ethics into those standards.
- Teams like these can work towards ensuring basic ethical principles are upheld and lesser represented groups are adequately accounted for in data sets.

Explainability

- As previously discussed in the "Principles of Trust in AI", this revolves around the idea of transparency and avoiding "black box algorithms" that hide how their decisions are being made. This could allow the public to be reassured of equal representation in AI models.
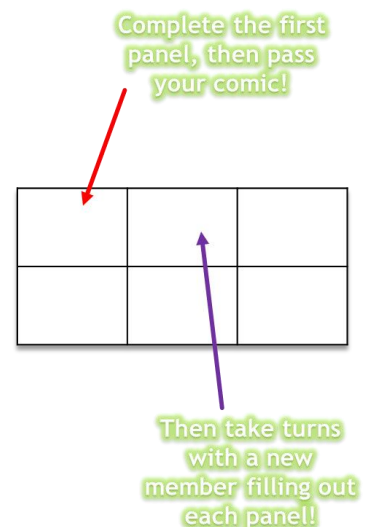
3. Do you believe these approaches will be effective? What do you think is missing?

Answer:

Understanding the Benefits of Diversity

Activity Instructions:

- **Complete the following activity on a piece of paper with a pen or pencil.**

- **In a group** of at 3 to 4 members, individually create a set of 6 empty comic strip panels.

- Do **NOT** communicate with your team members during this activity, as everyone possessing their own perspective and ideas is highly important.

- Now, taking **45-60 seconds**, create a drawing in your first panel of the comic, not including any words/dialogue.

- Then, everyone in the group **pass their comic strip** clockwise and fill out the next panel of your group members comic, given another 45-60 seconds.

- **Repeat this process** until everyone in the group has their story complete and return them to their original creator (the individual who drew the first panel).

Complete the first panel, then pass your comic!

Then take turns with a new member filling out each panel!

Reflecting on The Medici Effect

1. How did the story you created with your group differ from the story you had imagined from the beginning? Do you think it is better or worse? Why?

Answer:

2. Do you think you would have been able to come up with this exact story on your own?

Answer:

3. How do you think "The Medici Effect" would play a role in the further development of AI, or any new technological advancement in general?

Answer:

Reflecting on The Medici Effect