Lesson 2.1
<div align="right">3.7.2020</div>

Exploring Projects - AI for Good

DAILY OBJECTIVE

In this lesson, the class will review and discuss several projects that incorporate AI. Primarily, we'll be reviewing projects from Microsoft's AI For Good program to act as inspiration for the projects students will create.

DEFINITIONS

Here are some definitions you may find useful today!

Microsoft AI For Good: A program lead by Microsoft AI that focused on "providing technology, resources, and expertise to empower those working to solve humanitarian issues, and create a more sustainable and accessible world." This program has 5 key research areas, AI for Earth, AI for Health, AI for Accessibility, AI for Humanitarian Action and AI for Cultural Heritage.

Section 1: AI for Good

Microsoft's "AI for Good" initiative is a program that focused on "providing technology, resources, and expertise to empower those working to solve humanitarian issues, and create a more sustainable and accessible world."

We'll be reviewing the initiative areas together as a class, and then performing some more deep analysis of these areas in small groups.

1.1 Initiative Areas

The Microsoft AI for Good initiative currently covers 5 direct initiative areas:

1. **AI for Earth**: This initiative focuses on putting technology in the hands of people working to solve the climate crisis.

2. **AI for Health**: This initiative aims to empower researchers and organizations with AI to improve the health of people and communities around the world.

3. **AI for Accessibility**: This initiative aims to leverage AI to amplify human capability for the more than one billion people globally with a disability.

4. **AI for Humanitarian Action**: This initiative aims to partner with nonprofit and humanitarian organizations working to support disaster recovery, address the needs of children, protect displaced people, and promote human rights.

5. **AI for Cultural Heritage**: This initiative aims to empower people and organizations dedicated to the preservation and enrichment of cultural heritage.

Section 2: Group Up - Researching Initiatives

Now, the class will break into groups and review the initiative areas independently.

Follow these steps, and complete the "Researching Initiatives" Activity Worksheet.

1. **Choose an Initiative**: Each student should be in charge of reviewing 1-2 initiatives. It's your responsibility to briefly research these initiatives, and describe them to your group!

2. **Review the Projects:** Review the projects and outlines on the Microsoft AI for Good Web Page. You can reach the web page with the link below.

> **LINK** https://www.microsoft.com/en-us/ai/ai-for-good

3. **Discuss with your Group:** Each group member should share their research on the initiatives they reviewed with their group members.

4. **Ask Questions!:** Group members should ask questions about the initiatives they haven't researched in order to find out as much as possible. We'll be using these initiative areas as inspiration for our final projects. Don't let this information slip through the cracks!

Researching Initiatives

Answer the following questions while researching your initiative:

1. **Which Initiative are you researching?**

2. **In your own words, what are the goals of this initiative?**
    Provide some additional insight, beyond the short description on the web page!

3. **What types of projects has Microsoft and their partners have worked on in this initiative area?**
    What were the names of these projects? What were the goals and outcomes? Are they ongoing?

4. **What AI systems were mentioned or used in these projects?**
    How is AI being used to improve circumstances in these areas?

5. **Were there any surprising projects or results you did not expect to see?**
    What were these outcomes?