Student Mentor Guide
AI Impact Weekend: Climate Change

WHEN AND WHERE

Venue: Oxford Foundry, 3-5 Hythe Bridge St, Oxford, OX1 2EW
Date: Saturday 8th and Sunday 9th February 2020

TIMINGS

TIME	Saturday 8th February	Sunday 9th February
09:00-09:30	Registration/arrival	Arrival and breakfast
09:30-09:45	Welcome session	
09:45-13:00	Solution building (with mentors)	Solution building (with mentors)
13:00-14:00	Lunch	Lunch
14:00-17:00	Solution building (with mentors)	Solution building (with mentors)
17:30-19:00	Dinner	**17:00: DEADLINE FOR SOLUTION SUBMISSIONS**
19:30-21:30	Solution building (with mentors)	**17:00-19:00: HAPPY HOUR DRINKS**

OBJECTIVES

1. Develop AI and Machine Learning (ML) solutions to climate change that would increase the likelihood of limiting global warming to 1.5 ^{o}C above pre-industrial levels and/or assist with adaptation to climate breakdown.
2. Develop an understanding of the possible technical, social and economic benefits, risks, unintended consequences of using AI and ML to tackle climate change.

QUESTIONS TO EXPLORE

1. Why would AI methods be genuinely useful in your proposed application?
2. What are the quantified benefits, both in terms of immediate and realistic scalable potential, within the bounds of your business model?
3. How does your project consider the UN Sustainable Development Goals and the wider societal and ethical implications of your use of AI?
4. What are the possible technical, economic and societal risks and unintended consequences of your solution?

Assessment: Projects will be assessed on four areas: technical (25%); societal considerations (25%); business case (25%); overall innovation (25%).

HOW TO WORK WITH TEAMS

- You will be asked to introduce yourself on stage upon arrival, highlighting areas of expertise
- Approach teams directly to introduce yourself; share a little bit about your areas of expertise so they know what to seek your advice for (e.g. technical, societal, business, innovation).
- Each mentoring session should be a **max. 15 minutes.**
- We ask all student mentors to commit to at least 3 hours of mentoring over the course of the weekend.
- Offer guidance to help teams come to the answers independently rather than giving them the answers.
- Remind the teams of the judging criteria (see Welcome Pack), particularly to focus on all four aspects (technical, business, societal, and other) in order to stay on track.
- Help teams to remain focused and realistic; some may focus on a small aspect of the problem whilst others may be overly ambitious about what can be achieved over the course of the weekend. As student mentors, you can help to guide their expectations and goals across the weekend.
- Encourage the teams to celebrate each hurdle and to be reflective upon what they are learning.
- If helpful, direct students to online resources and tools to support solution development.
- If you are unsure how to best help a team, collaborate with another student mentor or find one of the Foundry team who can help to assist.
- **Please note**: Team submissions are expected in PowerPoint format (templates provided) and technical code must be submitted independently.