**Question 1 - multiple choice, shuffle**

W​e saw a Wired article claiming that for the good of society, data scientists need a hippocratic oath with teeth. The hippocratic oath usually applies to practitioners in which field?

\*A: M​edicine

B: L​aw

C: E​ducation

D: E​ngineering

E: P​hilosophy

**Question 2 - checkbox, shuffle, partial credit**

W​hich of the following have been Google mottos?

\*A: D​on't be evil

\*B: Y​ou can make money without being evil

C: D​o only good

D: Y​ou can make money while doing good

E: P​rofit by doing good

**Question 3 - checkbox, shuffle, partial credit**

I​n which of the following applications might the use of AI lead to harm?

A: Playing chess

\*B: Controlling autonomous vehicles

\*C: Shortlisting job applicants for interview

D: C​lassifying pictures as chihuahua or muffins

\*E: F​acial identification as a dual-factor identification method

**Question 4 - checkbox, no shuffle, no partial credit**

Which of the following statements represent a risk and responsible mindset for a data science professional?

A: Only focus on success stories

Feedback: Focusing only on success stories produces a selection bias that makes AI appear as harmless and guaranteed to deliver success, which is misleading.

B: AI is like a knife: it is just a tool, and can cause harm if not used appropriately.

Feedback: Although a knife can cause harm, it is very obvious to the user how this could happen - that is not necessarily the case with an AI system . Even so, knife manufacturers make a number of safety modifications to their products, whereas tools that are even more dangerous/unpredictable than that are regulated. Overall, the inventor or engineer of a technology carries responsibility to create guardrails for appropriate use of their products, and cannot shed that responsibility away.

\*C: The data scientist is best placed to identify potential harms because they understand the technology well.

\*D: Monitor as much as possible about the data science system both in development and in production

E: If we follow best practices and use the latest research, nothing bad can happen.

Feedback: Although best practices and research are important contributors to responsible AI, we must still remain humble and pragmatic and recognise that we don't know how to build completely safe AI systems yet.

F: Harmful AI arises from corrupt individuals or teams. Me and my team are committed to doing good.

Feedback: Harm is not always intentional, and as a result a promise to do good is not something you can guarantee to keep. Doing the best you can is a better mindset to have, as it gives people space to admit when there has been a mistake or possibility of risk, and then minimise it.

G: I am not a philosophy or social science graduate, so I will let others worry about this.

Feedback: Although it is appropriate not to step out of your field of expertise when giving advice, engaging with other disciplines and society at large is very important in order to be a responsible professional. Try to participate in the debate and conversation, even if only by way of reading books and articles about this topic on a regular basis.

\*H: Always check you have permission to use a dataset for a new analysis, even if you have used it before.