

# Quiz - Controversias e Futuro da IA

Total points **11/12**

Email \*

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✓ What causes algorithmic bias? (Multiple choice) \*

1/1

- ☒ Input data is classified incorrectly or results are evaluated inappropriately. ✓
- ☒ The input data is unrepresentative, lacks information, is historically biased, or has "bad" data. ✓
- ☒ Subjective rules programs into an algorithm. ✓
- ☐ There is no algorithmic bias.

✓ How to guarantee transparency and explainability? \*

1/1

- ☐ Involve diverse teams
- ☐ Collaboration between industry and government
- ☒ Human oversight ✓
- ☐ Use anonymized data



✓ Jobs that are innovative and have high requirements on social capabilities can not be easily replaced by AI.

\*1/1

☒ True



☐ False

✗ Which statements privacy concerns of the data? (Multiple choice) \*

0/1

☒ Lack of transparency



☒ Security risks



☒ Lack of consent



☒ Evaluate and monitor the data collection



Correct answer

☒ Lack of transparency

☒ Security risks

☒ Lack of consent

✓ A program has been carried out that helps select potential students for a University. This program has as input the person's school history and neighborhood. Historical data shows that those who finish university are from neighborhood X. Therefore, the highest percentage of those selected are taken from neighborhood X. It can be concluded that this program reflects algorithmic bias. \*1/1

☒ True



☐ False



✓ Which of the following statements helps reduce algorithmic bias? (Multiple choice) \*1/1

☒ Evaluate and Monitor the algorithm. ✓

☒ Explainability ✓

☒ Testing and Validation ✓

☒ Regular Audits ✓

✓ What are ethical concerns associated with AI? \* 1/1

- ☐ AI models can perpetuate and amplify biases in their training data, leading to discriminatory results and unfair decisions.
- ☐ AI models have the potential to collect and generate vast amounts of personal data, raising privacy concerns.
- ☐ AI models can make decisions the lack transparency and fairness.
- ☐ AI models can be used for malicious purposes such as creating fake, fake news, or spreading hate speech.
- ☒ All the options. ✓

✓ Jobs that involve highly repetitive tasks are the most vulnerable to being taken over by AI. However, most of the jobs created by the evolution and growth of AI will require the "upskilling" and "reskilling" of the workforce. \*1/1

☒ True ✓

☐ False



✓ What is not development trend for AI? \*

1/1

- ☐ Federated learning
- ☐ Explainable AI
- ☒ Bigger deep models
- ☐ Human-AI collaboration



✓ Existing AI algorithms require massive data. While people enjoy the convenience that AI brings, they are not threatened by the risk of privacy leaks.

\*1/1

- ☐ True
- ☒ False



✓ Which practice is wrong to combat ethical dilemmas. \*

1/1

- ☐ AI developers need to be transparent in a structured and accessible way. A good practice is the exchange of knowledge.
- ☐ Modernization of legal frameworks both in the country and at higher levels will clear the path towards the ethical development of AI.
- ☒ Historical data though may not be sufficient to fairly represent the entire population. The developers should not perform any processing on this data.
- ☐ AI developers and companies need to explain how their algorithms arrive at their predictions to overcome ethical issues that arise with inaccurate predictions.



✓ What correct statement correspond of the Huawei's global industry outlook report GIV 2020? (*Multiple choice*) \*1/1

☐ Popularization of 6G

☒ Weakening of search engine. ✓

☒ Popularization of intelligent robots ✓

☒ Applications of AI in a wide range of fields. ✓

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