

## **What is the scope of responsibility for AI experts of the use of AI technology?**

What is the proper responsibility of computer scientists, AI developers, and other experts on AI for consequences of the use of AI technology in society? What is the responsibility of AI experts for effects that go beyond the immediate concerns of the programmer or designer? For instance, algorithms categorising job applicants based on previously successful applications may reinforce discriminatory patterns in the training data. Algorithms that learn by making inferences from patterns in data they are exposed to may come up with results that are difficult to explain, even for the designers themselves. If those who make the AI systems cannot control them, could they then be responsible for what these systems do? Certainly, AI developers do not control all factors that affect the consequences of the use of AI. Still, AI experts have knowledge and control of the technical aspects of this technology, and the question is what degree of responsibility they have for the consequences of its use, and if so, to what extent. The aim of this paper is to discuss the scope of expert responsibility for the consequences of the application of AI technology in society. We will draw the discussion on critical algorithm studies and on the debate about expert responsibility in biomedicine, where researchers' self-imposed restrictions have been variously interpreted as ethically responsible and a way to resist government regulation.

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