

Responsible AI Use in Veterinary Science

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1 Responsible AI Use in Veterinary Science

Generative Artificial Intelligen (genAI) is becoming an increasingly common feature in a range of softwares, in professional and personal settings. Exactly how to integrate it into their practice is a decision best left to the individual's own choice, and must incorporate the individual's ethical beliefs, skill development, and the context of the work. However, there are some general approaches which lead to 'best practice' in responsible AI use.

This online, freely available and adaptable textbook is designed to support R(D)SVS students and staff to make choices about how they will use AI in their practice. It is heavily inspired by [AITutoR](#), the University of Glasgow resource on using AI, but it contains more examples relevant to veterinary science and clinical considerations.

2 How To Use This Book

This book is intended to **support** your learning journey and skill development. It is not intended to replace the support you will receive on genAI in your studies. Instead, it supplements this with further considerations and acts as an evolving document you can return to.

2.1 A Note on genAI and Skills

It is entirely plausible that deskilling occurs (Budzyń et al. 2025)

3 Generative Artificial Intelligence

3.1 How does AI work?

GenAI is commonly touted as a ‘black box’, with limited ability to look inside and explore how and why it makes the decisions it does.

While this is true in many senses, we do know quite a bit about how genAI are trained and developed.

We know that genAI must incorporate data loss in its process (Chiang 2023)

Simple video explainer:

<https://youtu.be/R9OHn5ZF4Uo>

4 Ethical Considerations

5 AI in Clinical Use

6 Utilising AI for Reviews

7 Utilising AI for Analysis

8 Acknowledgements

This book draws heavily from

References

- Budzyń, Krzysztof, Marcin Romańczyk, Diana Kitala, Paweł Kołodziej, Marek Bugajski, Hans O Adami, Johannes Blom, et al. 2025. “Endoscopist deskilling risk after exposure to artificial intelligence in colonoscopy: a multicentre, observational study.” *The Lancet Gastroenterology & Hepatology* 10 (10): 896–903. [https://doi.org/10.1016/S2468-1253\(25\)00133-5](https://doi.org/10.1016/S2468-1253(25)00133-5).
- Chiang, Ted. 2023. “ChatGPT is a blurry JPEG of the web.” New York, NY. <https://www.newyorker.com/tech/annals-of-technology/chatgpt-is-a-blurry-jpeg-of-the-web>.