





mind \equiv Machine Learning

models that learn from data

2

unsupervised

supervised







**Is the
regulatory
environment
ready for AI?**





Research Question

Can we develop new tools to aid regulatory decision making in disciplinary work?

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Methodology

- ! 5,700 (anonymized) disciplinary cases (US,UK,Australia)
- ! Reliability testing of prototype
- ! Gender debiasing techniques
- ! Qualitative testing with regulatory staff



References

Austin, Z., van der Gaag, A., Jago, R., Gallagher, A., Zasada, M., Banks, S. (2019) Understanding complaints to regulators about paramedics in the UK and social workers in England: findings from a multi method study, *Journal of Health Politics, Policy and Law*, 44(1), 19-28

Jago, R. van der Gaag, A., Stathis, K., Petej, I., Lertvittayakumorn, P., Krishnamurthy, Y., Gao, Y., Cáceres Silva, J., Webster, M., Gallagher, A. & Austin, Z. (2021) Use of Artificial Intelligence in Regulatory Decision-Making, *Journal of Health Politics, Policy and Law*, 46(1), 11-19.

Lertvittayakumjorn, P., Petej, I., Gao, Y., Krishnamurthy, Y., van der Gaag, A., Jago, R., Stathis, K.. (2021) Supporting complaints investigation for nursing and midwifery agencies. 59th meeting of the Association of Computational Linguistics <https://aclanthology.org/2021.acl-demo.10.pdf>

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