

Emma Mitchell

Edinburgh, UK

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Education

University of Edinburgh

Master of Science in Artificial Intelligence

Sep 2020 – Aug 2022 | Edinburgh, UK

GPA: Distinction (80%)

Activities: AI Ethics Committee, Women in ML/AI Society, Research Assistant in Computer Vision Lab

Relevant Coursework: Explainable AI, Ethical AI, Bias Detection, Fairness Metrics, AI Governance, Responsible ML, AI Safety

Bachelor's Degree: B.Sc. in Computer Science and Philosophy, University of Oxford, Grade: First Class Honours

Work Experience

AI Ethics Researcher | DeepMind | Sep 2022 - Present | London, UK

- Developed frameworks for evaluating fairness and bias in large language models and recommendation systems.
- Created interpretability tools for complex neural networks improving transparency of AI decision-making processes.
- Collaborated with policy teams to establish ethical guidelines for AI deployment in healthcare and finance.
- Conducted research on privacy-preserving machine learning techniques reducing data exposure risk.

Skills

AI Ethics: Fairness Assessment, Bias Detection, Transparency Methods, Privacy Protection, Value Alignment

Explainable AI: LIME, SHAP, Counterfactual Explanations, Feature Importance, Model-Agnostic Methods

Fairness Techniques: Bias Mitigation, Equalized Odds, Demographic Parity, Fair

Representation Learning

Privacy: Differential Privacy, Federated Learning, Secure Multi-Party Computation, Homomorphic Encryption

Evaluation: Fairness Metrics, Robustness Testing, Red Teaming, Bias Benchmarks, Adversarial Testing

Research: Literature Review, Experimental Design, Data Analysis, Technical Writing, Peer Review

Other: Regulatory Compliance, AI Governance, Stakeholder Engagement, Ethical Frameworks, Risk Assessment

Certificates

Certified AI Ethics Professional

Microsoft Responsible AI Certification

Data Ethics Framework Professional

AI Safety Fundamentals Certificate

Awards

Best Paper Award – Conference on Fairness, Accountability, and Transparency (FAccT) 2023

AI Ethics Researcher of the Year – UK AI Society 2022

Research Excellence Award – DeepMind 2023