ROSELINE POLLE

AI GOVERNANCE, RISK & COMPLIANCE I SHE/THEY

Skills: ML AUDITING, BIAS ANALYSIS & MITIGATION, TRANSPARENCY PYTORCH, TENSORFLOW, GIT, DASH, DOCKER, POETRY, STREAMLIT Fluent in: English | French @roseline-polle-68559762
polle.roseline@gmail.com
+44(0)7547974595

WORK EXPERIENCE	Machine Learning Researcher 2024 THYMIA thymia.ai
	Investigated the effect of confounds on performance metrics for detection of depression in speech audio samples. Systematic study to improve model's performance. Submission at Interspeech 2024.
	Responsible AI Auditor and Researcher 2021-2024 HOLISTIC AI https://www.holisticai.com/
	Developed and performed AI system audits, qualitative and technical, for Bias, Robustness, Transparency and Privacy with applications in recruitment, financial services, llms.
	Product development of the AI Governance, Risk and Compliance Platform in cooperation with Engineering team and Customer Success.
	Designed and delivered courses for data scientists and students with the Alan Turing Institute.
	Research Assistant 2022 INSTITUTE FOR THE FUTURE OF WORK (IFOW)
	Developped the Disruption Index to map and track technological disruption across the UK for the joint project <i>The Pissarides Review into the Future</i> of Work and Wellbeing by IFOW and Imperial College.
	Graduate Researcher 2020 UCL LOVE LAB
	Investigated neural networks models for aligning multimodal embeddings representing similar cognitive concepts. Implemented unsupervised learning objectives inspired from the GAN literature (cycle-consistency and maximum likelihood under a Gaussian Mixture Model) in Tensorflow.
	Computational Analyst 2017-2019 BLOOMBERG NEW ENERGY FINANCE
	Production-ready Python/ VBA models for Bloomberg's clients.
	Modelling Engineer 2014-2017 HIGHVIEW POWER
	Computational models and tools for a new energy storage technology. Engagement with energy storage policy makers.
EDUCATION	MSc Machine Learning 2019-2020 UCL
	Unsupervised Learning, Approximate Inference, Supervised Learning, Machine Vision, NLP, Reinforcement Learning, Bioinformatics.
	Diplome d'Ingenieur 2010-2014 ECOLE POLYTECHNIQUE
	Mathematics, Applied Mathematics, Informatics, Statistics, Physics, Economics.

PUBLICATIONS	Hilliard A, Kazim E, Koshiyama A, Zannone S, Trengove M, Kingsman N, Polle R. Regulating the robots: NYC mandates bias audits for ai-driven employment decisions. Available at SSRN 4083189. 2022 Apr 13.
	Kingsman N, Kazim E, Chaudhry A, Hilliard A, Koshiyama A, Polle R, Pavey G, Mohammed U. Public sector AI transparency standard: UK Government seeks to lead by example. Discover Artificial Intelligence. 2022 Feb 21;2(1):2.
	Kazim E, Koshiyama AS, Hilliard A, Polle R. Systematizing audit in algorithmic recruitment. Journal of Intelligence. 2021 Sep 17;9(3):46.
	Polle R, Kazim E, Carvalho G, Koshiyama A, Inness C, Knight A, Gorski C, Barber D, Lomas E, Yilmaz E and Thompson G. Towards AI standards: thought- leadership in AI legal, ethical and safety specifications through experimentation. 2021.
TALKS & COURSES	Devoxx UK 2023. Bias in Machine Learning
	Developed & Delivered Turing Institute online courses: Assessing and Mitigating Bias and Discrimination in AI.
	Assessing and mitigating bias and discrimination in AI: Beyond binary classification
INTERESTS	Football (captain), Climbing, Cycling, Movies
	Data sonification of open-source football data: https://football- opera.up.railway.app/