Human-in-the-Loop Project - Large Scale Computing and Data Analysis course @ Aalto List of Literature

An-Dan Nguyen May 2021

1 Introduction

This document contains the list of literature contains in this project.

References

- [1] P. J. Smith, N. D. Geddes, and R. Beatty, "Human-centered design of decision-support systems," *Human-Computer Interaction: Design Issues, Solutions, and Applications*, p. 245, 2009.
- [2] J. Lundberg, M. Bång, J. Johansson, A. Cheaitou, B. Josefsson, and Z. Tahboub, "Human-in-the-loop ai: Requirements on future (unified) air traffic management systems," in 2019 IEEE/AIAA 38th Digital Avionics Systems Conference (DASC). IEEE, 2019, pp. 1–9.
- [3] Z. Shang, E. Zgraggen, B. Buratti, F. Kossmann, P. Eichmann, Y. Chung, C. Binnig, E. Upfal, and T. Kraska, "Democratizing data science through interactive curation of ml pipelines," in *Proceedings of the 2019 Interna*tional Conference on Management of Data, 2019, pp. 1171–1188.
- [4] R. Elshawi, M. Maher, and S. Sakr, "Automated machine learning: State-of-the-art and open challenges," arXiv preprint arXiv:1906.02287, 2019.
- [5] D. Patel, S. Shrivastava, W. Gifford, S. Siegel, J. Kalagnanam, and C. Reddy, "Smart-ml: A system for machine learning model exploration using pipeline graph," in 2020 IEEE International Conference on Big Data (Big Data). IEEE, 2020, pp. 1604–1613.
- [6] A. van der Stappen and M. Funk, "Towards guidelines for designing human-in-the-loop machine training interfaces," in *26th International Conference on Intelligent User Interfaces*, 2021, pp. 514–519.

- [7] C. Chai, L. Cao, G. Li, J. Li, Y. Luo, and S. Madden, "Human-in-the-loop outlier detection," in *Proceedings of the 2020 ACM SIGMOD International Conference on Management of Data*, 2020, pp. 19–33.
- [8] D. Xin, L. Ma, J. Liu, S. Macke, S. Song, and A. Parameswaran, "Accelerating human-in-the-loop machine learning: challenges and opportunities," in Proceedings of the Second Workshop on Data Management for End-To-End Machine Learning, 2018, pp. 1–4.
- [9] —, "Helix: accelerating human-in-the-loop machine learning," arXiv preprint arXiv:1808.01095, 2018.
- [10] G. Li, "Human-in-the-loop data integration," *Proceedings of the VLDB Endowment*, vol. 10, no. 12, pp. 2006–2017, 2017.
- [11] I. Xanthopoulos, I. Tsamardinos, V. Christophides, E. Simon, and A. Salinger, "Putting the human back in the automl loop." in *EDBT/ICDT Workshops*, 2020.
- [12] S. Budd, E. C. Robinson, and B. Kainz, "A survey on active learning and human-in-the-loop deep learning for medical image analysis," *Medical Image Analysis*, p. 102062, 2021.
- [13] C. Chai and G. Li, "Human-in-the-loop techniques in machine learning," *Data Engineering*, p. 37, 2020.
- [14] R. Munro, Human-in-the-loop machine learning. O'Reilly Media, 2020.
- [15] D. Honeycutt, M. Nourani, and E. Ragan, "Soliciting human-in-the-loop user feedback for interactive machine learning reduces user trust and impressions of model accuracy," in *Proceedings of the AAAI Conference on Human Computation and Crowdsourcing*, vol. 8, no. 1, 2020, pp. 63–72.
- [16] F. M. Zanzotto, "Human-in-the-loop artificial intelligence," *Journal of Artificial Intelligence Research*, vol. 64, pp. 243–252, 2019.
- [17] O. Bezrukavnikov and R. Linder, "A neophyte with automl: Evaluating the promises of automatic machine learning tools," arXiv preprint arXiv:2101.05840, 2021.