**Interpretability in machine learning, the case of LIME**

Machine learning inspired approaches have demonstrated impressive empirical successes in recent years. Nevertheless, this often comes at the cost of complicated machinery, preventing the user to understand what is really going on. Interpretability aims to fix this loophole, by presenting quantitative insights on the way a specific decision was made. In this talk, I will present this (relatively) new field, and then focus on recent results regarding one specific method: LIME.