Predictive Analytics for Resource Allocation

Automatic Diagnosis of Breast Cancer | IUSS 23-24

Ethical Reflection:
Deploying the predictive model within a company raises concerns about potential bias. The dataset may be skewed, for example, if certain types of breast cancer images or patient demographics are underrepresented, leading the model to perform worse for those groups. Such biases could lead to unfair predictions or misclassifications.

Tools like **IBM AI Fairness 360** can help detect and mitigate these biases. They provide metrics to evaluate fairness across subgroups and implement mitigation techniques, such as reweighting, resampling, or bias correction, to improve model equity. By integrating these tools, the company can ensure the model makes more balanced and fair predictions, reducing risks of discrimination and improving trust in AI-driven decisions.