Ethical Artificial Intelligence Principles

Illumina is dedicated to improving human health by unlocking the power of the genome. That mission drives everything that we do, including the technology that we develop. Illumina creates and uses artificial intelligence (AI) systems to power industry-leading sequencing quality, fuel data insights, improve understanding of genomic variation in relation to health and disease, and to advance genomic science. We define AI systems to include machine learning, deep learning, and predictive modeling. Illumina is committed to developing and using AI according to applicable laws and the following guiding principles:

Transparency
We develop AI systems that strive to be explainable and interpretable.

Diversity, Non-Discrimination, and Fairness
We consider diversity and inclusivity throughout the life cycle of AI systems and promote the creation of and accessibility to high quality, universal genomic, and healthcare data sets.

Values-Driven Design
We design AI systems that further our mission to improve human health by unlocking the power of the genome and that reflect our values, including high standards of scientific excellence and integrity, responsible stewardship of data, and those described in our Privacy Principles, Code of Conduct, and Commitment to Human Rights.

Accountability
We create well-defined use cases for the AI systems we develop and implement appropriate quality control and security measures. We are committed to establishing points of human supervision in our AI systems and providing opportunities for feedback from individuals and groups who use or are impacted by our AI systems.