

MASTERCLASS IN AI

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**POSITIVE IMPACTS vs.
CONSEQUENCES**

**SOLVING THE WORLD'S GREATEST
CHALLENGES**

VS.

CREATING NEW ETHICAL QUESTIONS

ARTIFICIAL INTELLIGENCE

- ▶ **STILL UNDEFINED**
- ▶ **COMPUTER DOES HUMAN TASKS**
- ▶ **REQUIRES DATA**
- ▶ **LIFE CHANGING DECISIONS**
- ▶ **WORLD ALTERING METHODS**
- ▶ **AS POWERFUL AS IT IS VULNERABLE**

ARTIFICIAL INTELLIGENCE

- ▶ EXPANDING KNOWLEDGE
- ▶ INCREASING PROSPERITY
- ▶ ENRICHING THE HUMAN EXPERIENCE
- ▶ ACCELERATING CREATIVITY
- ▶ ENHANCING CRITICAL THINKING
- ▶ INCREASING COMPETITION & CONFLICT

ALGORITHMS

**MATHEMATICAL FORMULA THAT
PROVIDES INSTRUCTIONS TO A
COMPUTER TO PERFORM A SPECIFIC
TASK**

ALGORITHMS

- ▶ HUMAN-LIKE INTELLIGENCE
- ▶ PRECISION-PROBLEM SOLVING
- ▶ REVOLUTIONISE EVERY DISCIPLINE,
INDUSTRY, METHODOLOGY
- ▶ NOT VALUE NEUTRAL

THE PROMISE OF ALGORITHMS

- ▶ **HINDSIGHT (LEARN FROM THE PAST)**
- ▶ **FORESIGHT (PREDICT & PREPARE)**
- ▶ **INSIGHT (INTERPRET & RESPOND)**
- ▶ **OVERSIGHT (MITIGATE, MONITOR, MANAGE)**

THE HIDDEN EFFECTS OF ALGORITHMS

- ▶ RACIAL DISPARITIES
- ▶ ECONOMIC DISPARITIES
- ▶ MARGINALISATION
- ▶ SYSTEMIC RACISM
- ▶ POLY-VICTIMISATION
- ▶ MULTIPLE LEVELS OF DISCRIMINATION

THE POLITICS OF ALGORITHMS

- ▶ GLOBAL DOMINANCE
- ▶ EXPANSION
- ▶ EXTRACTION
- ▶ EXPLOITATION
- ▶ EXPERIMENTATION
- ▶ EXCLUSION

INTERROGATING ALGORITHMS

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- ▶ DEEPLY DESTRUCTIVE
- ▶ REPEAT PAST PREJUDICES & PATTERNS
- ▶ AUTOMATE THE STATUS QUO
- ▶ CODIFY BIAS & BIGOTRY

THE PERVASIVENESS OF AI

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- ▶ **KNOWN vs. UNKNOWN**
- ▶ **PROMISE vs. PERIL**
- ▶ **RISK vs. REWARD**
- ▶ **FEAR vs. FUTURE-PROOFING**
- ▶ **PROMOTE & PROTECT RIGHTS**
- ▶ **INHERITS PREJUDICES**
- ▶ **ONLY AS GOOD AS THE DATA**

ETHICAL RISKS

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- ▶ **PRIVACY**
- ▶ **ACCOUNTABILITY**
- ▶ **TRANSPARENCY**
- ▶ **EXPLAINABILITY**
- ▶ **FAIRNESS & NON-DISCRIMINATION**
- ▶ **SAFETY & SECURITY**

THE IMPACTS OF ETHICAL RISKS

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- ▶ REPUTATION DAMAGE
- ▶ REVENUE LOSS
- ▶ REGULATORY BACKLASH
- ▶ CRIMINAL INVESTIGATION
- ▶ DIMISHED PUBLIC TRUST
- ▶ MEDIA ATTACK

RISK MANAGEMENT

- ▶ DETECT
- ▶ MITIGATE
- ▶ MANAGE
- ▶ MONITOR
- ▶ EVALUATE
- ▶ IMPROVE

DATA

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- ▶ POWER
- ▶ PROMISE
- ▶ PRIVILEGE
- ▶ PERVASIVENESS
- ▶ POLITICS
- ▶ PREJUDICE
- ▶ PERIL

DATA SCIENCE

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- ▶ COLLECTION
- ▶ ANALYSIS
- ▶ STORAGE
- ▶ PRESENTATION
- ▶ SHARING

FAIR

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- ▶ FINDABLE
- ▶ ACCESSIBLE
- ▶ INTEROPERABLE
- ▶ REUSABLE

DATA-DRIVEN DECISION-MAKING

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- ▶ ACCESS
- ▶ ACCURACY
- ▶ PRECISION
- ▶ KNOWLEDGE
- ▶ OPPORTUNITY
- ▶ LEADERSHIP
- ▶ BUSINESS MODEL REIMAGINED

DECISION-MAKING ACCURACY

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- ▶ EFFICIENCY
- ▶ EFFECTIVENESS
- ▶ EXPEDIENCY
- ▶ EXCELLENCE
- ▶ EXCLUSION

DESIGN

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- ▶ ETHICAL
- ▶ RESPONSIBLE
- ▶ TRUSTWORTHY
- ▶ CONSENT
- ▶ PRIVACY
- ▶ SECURITY
- ▶ OWNERSHIP
- ▶ PROTECTION

DEVELOP

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- ▶ FAIR
- ▶ TRANSPARENT
- ▶ ACCOUNTABLE
- ▶ EXPLAINABLE
- ▶ AUDITABLE
- ▶ RESILIENT
- ▶ SUSTAINABLE

DEPLOY

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- ▶ **STAKEHOLDER ENGAGEMENT**
- ▶ **CHANGE MANAGEMENT**
- ▶ **CRISIS MANAGEMENT**
- ▶ **RISK MANAGEMENT**
- ▶ **CRISIS COMMUNICATION**
- ▶ **CONTINGENCY PLANNING**

DUE DILIGENCE

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- ▶ NO NEUTRAL TECHNOLOGY
- ▶ OBJECTIVITY QUESTIONABLE
- ▶ PERPETUATE PREEXISTING DISPARITIES
- ▶ BREAKING BARRIERS
- ▶ ERECTING BARRIERS

LONGTERM IMPACTS OF DATA & AI ON SOCIETY

- ▶ CULTURALLY AWARE
- ▶ CULTURALLY APPROPRIATE
- ▶ CULTURALLY SENSITIVE
- ▶ CULTURALLY RESPONSIVE
- ▶ INTERDISCIPLINARY
- ▶ DIVERSE SUBJECT MATTER EXPERTS

DUTY OF CARE

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- ▶ COMPLIANCE
- ▶ OVERSIGHT
- ▶ JUSTICE-ORIENTED
- ▶ TRAUMA-INFORMED
- ▶ HIPPOCRATIC OATH
- ▶ FDA STYLE ADMINISTRATION
- ▶ BIDEN ADMIN “BILL OF RIGHTS”

DUE PROCESS

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- ▶ FAIRNESS
- ▶ OPACITY vs. TRUE TRANSPARENCY
- ▶ JEDI
- ▶ ROBUST & RIGOROUS GUARDRAILS
- ▶ AI INTEGRITY
- ▶ AI MATURITY
- ▶ AI LEGITMACY

DO NO HARM

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- ▶ DO WHAT IS RIGHT
- ▶ ETHICAL VIGILANCE
- ▶ AN ETHICS OF CARE
- ▶ DO NOT WAIT ON THE LAW
- ▶ DO NOT DECEIVE
- ▶ PROACTIVE IN OUR OWN PROTECTION
- ▶ REQUISITE PRECAUTIONARY MEASURES

DIVERSITY

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- ▶ ACCESS
- ▶ ACCESSIBILITY
- ▶ EQUITY
- ▶ INCLUSION
- ▶ REPRESENTATION
- ▶ VISIBILITY
- ▶ VOICE
- ▶ AN ETHICAL ORGANISATIONAL CULTURE

DISCRIMINATION

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- ▶ BIAS
- ▶ ALGORITHMIC JUSTICE
- ▶ DATA JUSTICE
- ▶ CRIMINAL JUSTICE
- ▶ DESIGN JUSTICE
- ▶ RACIAL JUSTICE
- ▶ SOCIAL JUSTICE

DEMOCRACY

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- ▶ DATA
- ▶ DECISION-MAKING
- ▶ DISINFORMATION
- ▶ DEEPFAKES
- ▶ BAD ACTORS

DISEMPower

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- ▶ ALIENATE
- ▶ EXCLUDE
- ▶ MARGINALISE
- ▶ UNDERMINE AGENCY & AUTONOMY
- ▶ COMPROMISE SELF-DETERMINATION

DYSTOPIAN

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- ▶ TECHNO-DETERMINISM
- ▶ TECHNO-SOLUTIONISM
- ▶ NO FEAR
- ▶ DEMOCRATISE
- ▶ DEMYSTIFY
- ▶ DECOLONISE
- ▶ FUTURES LITERACY

DATA RIGHTS

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- ▶ **DISENFRANCHISE**
- ▶ **CIVIL LIBERTIES/CIVIL RIGHTS**
- ▶ **CONSTITUTIONAL RIGHTS**
- ▶ **HUMAN RIGHTS**
- ▶ **SOCIAL CONTRACT**
- ▶ **AI BILL OF RIGHTS**
- ▶ **EU AI ACT**

THANK YOU

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