

Genetic Algorithms

- ALREADY EXIST
- EXAMPLE: TPOT OVER SCIKIT LEARN
- FUTURE APPLICATIONS
 - LUFTHANSA CASANOVA VS ADAPTIVE ROUTING
 - JACOB-MACFARLANE VS GENERATIVE DESIGN FROM AUTODESK

AI WORK BEST AS ASSISTANT TO HUMANS

- IS SUSTAINABLE
- AND PROFITABLE

NOTES:

Digital Twins

- DIGITAL MODEL OF A PHYSICAL OBJECT
 - DATA FROM THE PHYSICAL OBJECT
 - COMMUNICATES WITH AND MONITORS THE PHYSICAL OBJECT
 - COULD BE SOFTWARE REPRESENTATION, OR PHYSICAL ONE
 - PRIMARILY GEARED TOWARDS IOT
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- ASSET OPTIMISATION
 - PREVENTIVE MAINTAINANCE
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- CAN BE APPLIED TO ASSETS LIKE PEOPLE, THINGS, APPLICATIONS, PLACES
 - CAR MANUFACTURES WILL ALSO BE SOFTWARE VENDORS DEPLOYING DIGITAL TWINS FOR COMPETITIVE FEATURES
 - SIMPLE OR COMPOSITE
 - BRINGS DIGITAL DATA ETHICS INTO PICTURE

NOTES:

Quantum Computing

- INSTEAD OF JUST 0 AND 1, QUIT CAN HAVE MANY 0, 1, AND MANY OTHER STATES AT SAME TIME
 - USING SUPERPOSITION AND ENTANGLEMENT, MULTIPLE CALCULATIONS CAN BE PERFORMED AT SAME TIME
 - QUANTUM SUPREMACY
 - CHINESE QUANTUM SATELLITE FOR HACK-PROOF COMMUNICATIONS
 - PROS
 - FRAUD DETECTION
 - BETTER PORTFOLIOS WITHOUT JUGGLING
 - CONS
 - ENCRYPTION
 - CRYPTO CURRENCY THREATS
- FOCUS ON:
- ALGORITHM DESIGN
 - QUANTUM RISK ASSESSMENT

NOTES: