



MONT ROSE[®]
COLLEGE

AI DRIVING THE FUTURE OF WORK

AI COE HUB

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INTRODUCTION – WHAT IS AI (ARTIFICIAL INTELLIGENCE)

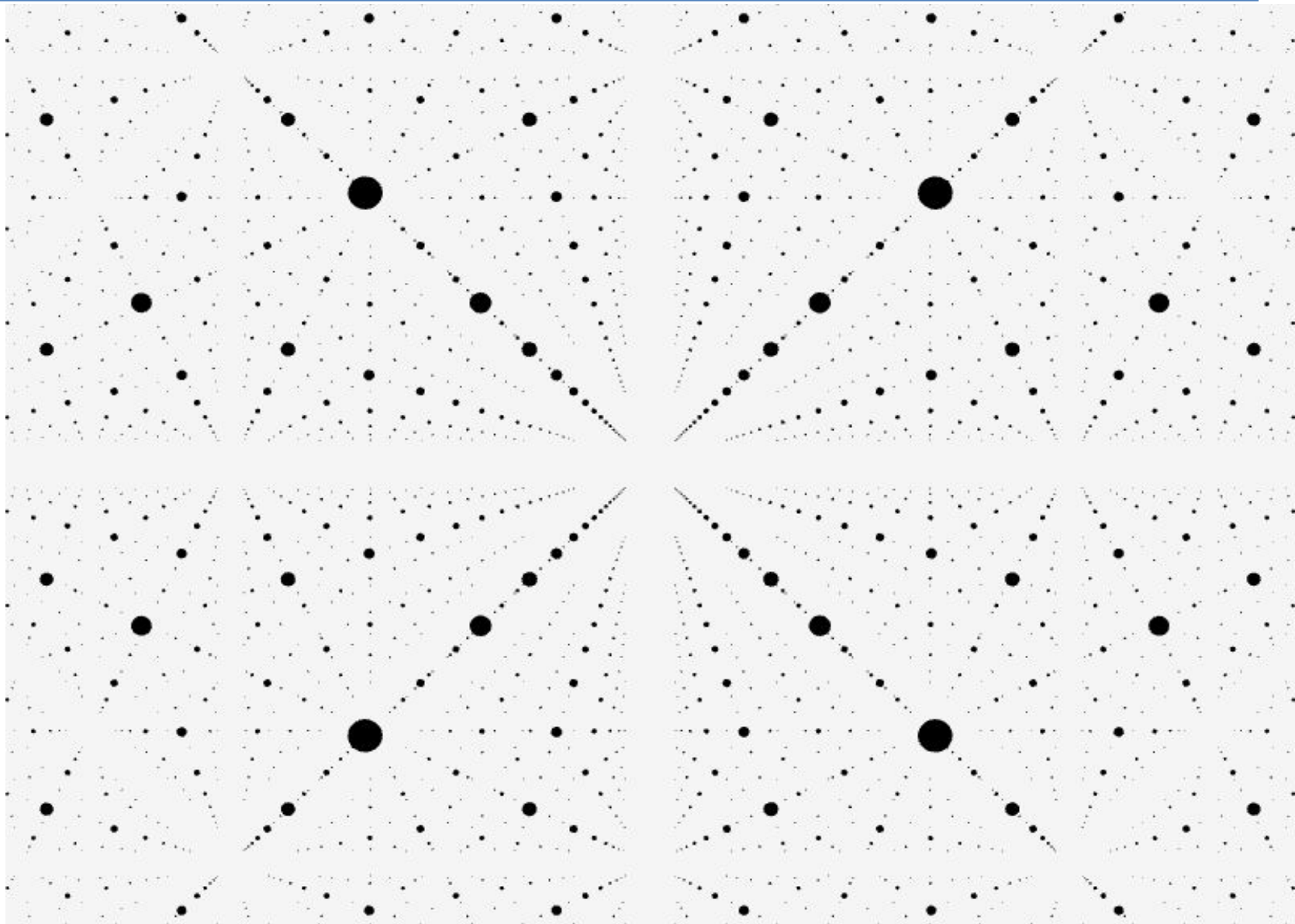
AI is rapidly transforming industries and reshaping the very nature of work. With advancements in machine learning, natural language processing, and robotics, AI is automating tasks, augmenting human capabilities, and even creating entirely new job categories.

We will explore the future of work both the disruptions it brings and the immense opportunities it unlocks. While AI promises increased productivity and efficiency, it also raises concerns about job displacement. Automation of routine and repetitive tasks is inevitable, potentially displacing workers in sectors like manufacturing, transportation, and customer service. Technological advancements also create new jobs and industries. The challenge lies in ensuring a smooth transition for the workforce by investing in reskilling and upskilling programs to prepare workers for the jobs of the future.



AI ALLOWS MACHINES TO MIMIC HUMAN LIKE THINKING, HELPING US EFFICIENTLY MANAGE THE MASSIVE AND COMPLEX DATA GENERATED. EG: CHATGPT AN ARTIFICIAL INTELLIGENCE (AI) CHATBOT BUILT ON TOP OF OPENAI'S FOUNDATIONAL LARGE LANGUAGE MODELS (LLMS) LIKE GPT-4 AND ITS PREDECESSORS.

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**WHATS THE BIG
DEAL?**



GENERATIVE AI PRESENTS UNIQUE OPPORTUNITY

- The rapid rise of generative AI through chatGPT, has sparked both excitement and concern about its societal and economic impact. There is substantial opportunity for AI models to boost productivity.
- This creates unique for opportunities technology leaders to drive expertise in ethical and responsible ai, ensuring that advancements in technology prioritize the betterment of humanity and adding business value.
- By championing accessibility and education, we can unlock AI's potential to enhance society and drive innovation that benefits everyone.

KEY OPPORTUNITY FOR GENERATIVE AI (GenAI) LIES IN ITS POTENTIAL TO TRANSFORM INDUSTRIES AND REVOLUTIONIZE HOW WE WORK, CREATE, AND INTERACT WITH TECHNOLOGY.

ENHANCED PRODUCTIVITY AND EFFICIENCY:

GenAI can automate tasks, streamline processes, and augment human capabilities, leading to increased productivity and efficiency across various sectors.

ACCESSIBLE AND INCLUSIVE TECHNOLOGY:

Generative AI can break down language barriers, create accessible content, and democratize technology, making it more inclusive for people with diverse abilities and backgrounds.

CREATIVE INNOVATION / PERSONALIZATION:

Generative AI can generate novel ideas, unique content, and personalized experiences, opening up new avenues for creativity and customer engagement.

DECISION-MAKING AND PROBLEM-SOLVING:

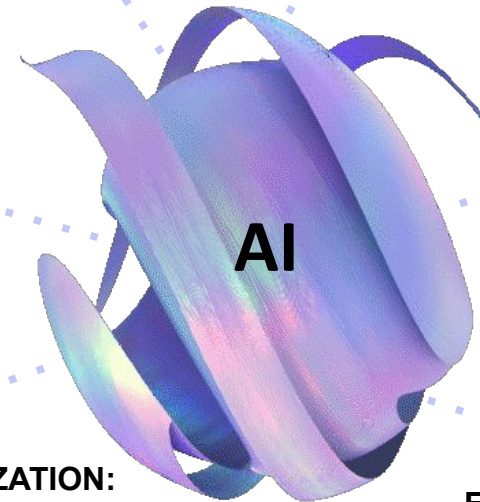
GenAI can analyse vast amounts of data, uncover patterns, and generate insights, empowering businesses and individuals to make better decisions and solve complex problems.

ADVANCED LEARNING PROGRAMMES

The widespread adoption of Generative AI will automate many jobs, making it crucial for governments to retrain the workforce with new skills to adapt to a technology-driven job market where humans and technology collaborate.

ECONOMIC GROWTH AND JOB CREATION:

The development and adoption of Generative AI can drive economic growth, create new jobs, and transform industries, leading to a more prosperous and innovative future.



OPPORTUNITIES COME AT COST AND REQUIRES CAREFUL CONSIDERATION OF ETHICAL IMPLICATIONS, POTENTIAL RISKS, AND RESPONSIBLE DEVELOPMENT PRACTICES.

CLOSER ZOOM INTO THREE PILLARS OF ARTIFICIAL INTELLIGENCE

EACH TYPE OF AI OFFERS UNIQUE VALUE, AND THEIR COMBINED POWER IS DRIVING INNOVATION ACROSS INDUSTRIES. UNDERSTANDING THEIR DISTINCT CAPABILITIES, WE CAN BETTER HARNESS AI TO SOLVE COMPLEX PROBLEMS AND CREATE A MORE EFFICIENT, PERSONALIZED, AND CREATIVE FUTURE.

GENERATIVE AI: THE CREATIVE FORCE

- **WHAT:** CREATES NEW CONTENT – TEXT, IMAGES, MUSIC, CODE OFTEN INDISTINGUISHABLE FROM HUMAN-MADE WORK.
- **HOW:** USES COMPLEX GPT ALGORITHMS - TO LEARN PATTERNS FROM EXISTING DATA AND GENERATE ORIGINAL OUTPUTS.
- **EX:** CHATGPT FOR TEXT, DALL-E FOR IMAGES, MUSIC COMPOSITION TOOLS, CODE GENERATION TOOLS.

PRESCRIPTIVE AI: THE ADVISOR

- **WHAT:** RECOMMENDS OPTIMAL ACTIONS OR DECISIONS BASED ON PREDICTED OUTCOMES AND SPECIFIC GOALS.
- **HOW:** COMBINES PREDICTIVE ANALYTICS WITH OPTIMIZATION TECHNIQUES TO FOR BEST ACTIONS.
- **EX:** SUPPLY CHAIN OPTIMIZATION, PERSONALIZED HEALTH TREATMENT PLANS, FINANCIAL PORTFOLIO MANAGEMENT, LOGISTICS ROUTE OPTIMIZATION



PREDICTIVE AI: THE FORTUNE TELLER

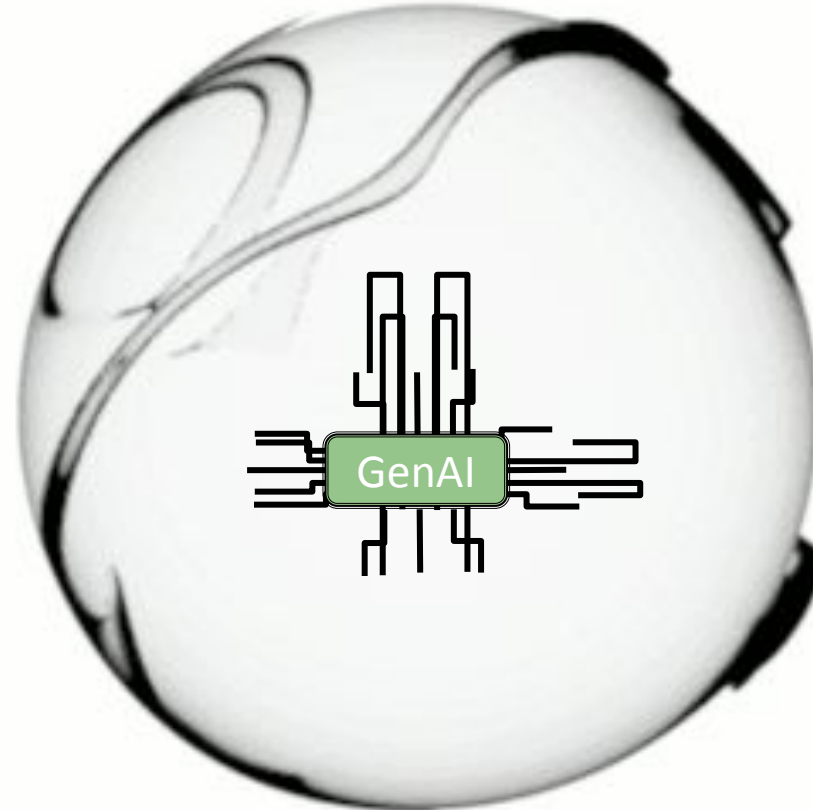
- **WHAT:** ANALYZES HISTORICAL AND REAL-TIME DATA TO FORECAST FUTURE TRENDS, BEHAVIORS, AND EVENTS.
- **HOW:** EMPLOYS MACHINE LEARNING ALGORITHMS TO IDENTIFY PATTERNS AND CORRELATIONS THAT PREDICT FUTURE OUTCOMES.
- **EX:** DEMAND FORECASTING, CUSTOMER CHURN PREDICTION, PREDICTIVE MAINTENANCE, RISK ASSESSMENT IN FINANCE.

COMPONENTS OF GENERATIVE AI

GENERATIVE AI IS A TYPE OF ARTIFICIAL INTELLIGENCE THAT CAN CREATE NEW CONTENT AND IDEAS, INCLUDING CONVERSATIONS, STORIES, IMAGES, VIDEOS, AND MUSIC.

MODELS: GENERATIVE AI USES COMPLEX ALGORITHMS AND MODELS, OFTEN BASED ON NEURAL NETWORKS, TO LEARN PATTERNS AND STRUCTURES FROM VAST AMOUNTS OF DATA.

GENERATION: ONCE TRAINED, THE MODELS CAN GENERATE NEW CONTENT THAT RESEMBLES THE TRAINING DATA BUT IS NOT SIMPLY A COPY. THIS CAN RANGE FROM REALISTIC IMAGES AND COHERENT TEXT TO ORIGINAL MUSIC COMPOSITIONS AND CREATIVE IDEAS.



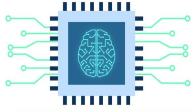
TRAINING: THESE MODELS ARE TRAINED ON LARGE DATASETS OF TEXT, IMAGES, OR OTHER FORMS OF CONTENT, ALLOWING THEM TO UNDERSTAND AND REPLICATE THE UNDERLYING PATTERNS.

APPLICATIONS: GENERATIVE AI HAS A WIDE RANGE OF APPLICATIONS ACROSS VARIOUS INDUSTRIES. IT CAN BE USED TO CREATE PERSONALIZED MARKETING CAMPAIGNS, GENERATE REALISTIC PRODUCT PROTOTYPES, DEVELOP NEW DRUGS, AUTOMATE CONTENT CREATION, AND EVEN CREATE ART.

UNLIKE TRADITIONAL AI, WHICH IS MAINLY USED TO ANALYZE AND CLASSIFY EXISTING DATA, GENERATIVE AI CAN PRODUCE ORIGINAL AND CREATIVE OUTPUTS.

OVERVIEW OF GEN AI LANDSCAPE

WHOSE BRAINS



GENERATIVE AI, LIKE GPT-4 POWRED BY LARGE LANGUAGE MODELS (LLM), LEARNS FROM VAST AMOUNTS OF INFORMATION TO PERFORM A WIDE RANGE OF TASKS.

WHY NOW



ADVANCEMENTS IN AI, CLOUD TECHNOLOGY, AND POPULAR APPS HAVE MADE GENERATIVE AI A MAINSTREAM PHENOMENON. BREAKTHROUGHS IN MACHINE LEARNING, THE GROWTH OF CLOUD COMPUTING POWER, AND THE RISE OF USER-FRIENDLY AI APPS HAVE ALL CONTRIBUTED. THIS SYNERGY, COUPLED WITH INCREASING DEMAND FOR INNOVATIVE SOLUTIONS, HAS PROPELLED GENERATIVE AI INTO THE SPOTLIGHT, WITH POTENTIAL FOR TRANSFORMATIVE IMPACT ACROSS INDUSTRIES.

TECH FIRMS



THE LARGE TECH FIRMS (HYPERSCALERS) PROVIDE THE ESSENTIAL CLOUD INFRASTRUCTURE, COMPUTING POWER, AND SPECIALIZED HARDWARE THAT ENABLE THE TRAINING AND EXECUTION OF LARGE-SCALE GENERATIVE AI MODELS. THEIR INVOLVEMENT IS CRUCIAL FOR THE CONTINUED ADVANCEMENT AND ACCESSIBILITY OF GENERATIVE AI TECHNOLOGIES.

HYPERSCALERS



- **MICROSOFT AZURE:** THROUGH ITS PARTNERSHIP WITH OPENAI (CREATOR OF CHATGPT & DALL-E), THEY ARE BUILDING THEIR CLOUD INFRASTRUCTURE TO SUPPORT LARGE-SCALE AI MODEL TRAINING AND DEPLOYMENT. OFFERING OPENAI SERVICE FOR BUSINESSES TO UTILIZE THESE MODELS.
- **GOOGLE CLOUD PLATFORM (GCP):** HAS DEVELOPED ITS OWN POWERFUL LANGUAGE MODELS LIKE LAMDA AND PALM AND IS INVESTING IN CUSTOM TENSOR PROCESSING UNITS (TPUS) TO ACCELERATE AI COMPUTATIONS ON GCP
- **AMAZON WEB SERVICES (AWS):** AWS OFFERS A RANGE OF AI SERVICES, INCLUDING SAGEMAKER FOR BUILDING AND TRAINING MACHINE LEARNING MODELS, AND TRAINIUM CHIPS DESIGNED TO ACCELERATE MACHINE LEARNING WORKLOADS. THEY ARE ALSO INVESTING IN CUSTOM SILICON FOR AI.
- **META (aka FACEBOOK):** META HAS BEEN ACTIVELY RESEARCHING AND DEVELOPING LARGE LANGUAGE MODELS AND GENERATIVE AI TOOLS. HAVE THEIR OWN AI RESEARCH SUPERCLUSTER (RSC) TO TRAIN LARGE-SCALE MODELS AND HAVE BUILT ChatLLaMA

SAFE AI ADOPTION - ETHICAL IMPERATIVES – ADDRESSING BIAS, PRIVACY, AND JOB SECURITY

CRITICAL CONCERN IS THE POTENTIAL FOR BIAS IN AI ALGORITHMS, WHICH CAN PERPETUATE EXISTING INEQUALITIES AND DISCRIMINATE AGAINST CERTAIN GROUPS. ENSURING FAIRNESS AND TRANSPARENCY IN AI SYSTEMS IS ESSENTIAL TO BUILDING TRUST AND AVOIDING NEGATIVE CONSEQUENCES.

<p>BIAS AND DISCRIMINATION</p> <p>AMPLIFY BIASES, LEADING TO HARMFUL STEREOTYPES AND DISCRIMINATION</p>	<p>MISINFORMATION & MANIPULATION</p> <p>SPREAD FACTUALLY INCORRECT CONTENT AND DECEIVE PUBLIC OPINION</p>	<p>PRIVACY LOSS</p> <p>GENERATE PERSONAL INFORMATION AND IMPERSONATE INDIVIDUALS >> PRIVACY AND SECURITY RISKS</p>	<p>HALLUCINATION</p> <p>PRODUCE OUTPUT THAT IS INCORRECT, NONSENSICAL, OR NOT REAL</p>
<p>ETHICAL DECISION-MAKING</p> <p>ETHICAL DILEMMAS IN CONTENT GENERATION</p>	<p>UNINTENDED CONSEQUENCES</p> <p>GENERATE OUTPUTS ENCOURAGING HARMFUL OR ILLEGAL ACTIONS, NECESSITATING SAFEGUARDS CONTROLS</p>	<p>OVER-RELIANCE ON AI</p> <p>EXCESSIVE RELIANCE ON TECH MAY UNDERMINE CRITICAL THINKING AND PROBLEM-SOLVING SKILLS</p>	<p>DATA POISONING</p> <p>MALICIOUS ACTORS COULD INTRODUCE BIASED OR MISLEADING DATA INTO MODELS</p>
<p>LEGAL AND REGULATORY ISSUES</p> <p>CHALLENGES IN INTELLECTUAL PROPERTY, LIABILITY FOR GENERATED CONTENT, AND ACCOUNTABILITY</p>	<p>LACK OF TRANSPARENCY AND CONTEXT</p> <p>BLACK BOXES, NECESSITATING GREATER TRANSPARENCY AND CONTEXT</p>	<p>ACCESSIBILITY & INCLUSIVITY</p> <p>MUST ACCOMMODATE DIVERSE USERS AND CULTURAL CONTEXTS FOR INCLUSIVITY</p>	<p>MODEL THEFT & IP INFRINGEMENT</p> <p>AI MODELS COULD BE STOLEN OR REVERSE-ENGINEERED BY COMPETITORS OR MALICIOUS ACTORS, OWNERSHIP AND OF IP ISSUES.</p>



UNDERSTAND THE BUSINESS VALUE OF GENERATIVE AI IN THE WORKPLACE

BUSINESS VALUES SPANS ACROSS VARIOUS INDUSTRIES AND FUNCTIONS, UNLOCKING NEW OPPORTUNITIES FOR GROWTH, INNOVATION, AND EFFICIENCY.



- **COST SAVINGS**
- **SPEED TO MARKET**
- **ENHANCED CREATIVITY**
- **EFFICIENCY & AUTOMATION**
- **PERSONALIZATION**

Generative AI has the potential to transform businesses across various industries by unlocking new levels of creativity, productivity, and efficiency. By embracing this technology and leveraging its capabilities, businesses can gain a competitive edge, drive innovation, and create new value for their customers and stakeholders.

- **INCREASED PRODUCTIVITY AND EFFICIENCY**
 - AUTOMATES TASKS, STREAMLINES PROCESSES, ENABLING HIGHER-VALUE WORK.
- **CREATIVE INNOVATION AND PERSONALIZATION**
 - CREATES UNIQUE CONTENT, PERSONALIZED EXPERIENCES, AND NOVEL IDEAS.
- **IMPROVED DECISION-MAKING AND PROBLEM-SOLVING**
 - ANALYZES DATA, UNCOVERS PATTERNS, GENERATES INSIGHTS, SIMULATES SCENARIOS, PREDICTS OUTCOMES.
- **COST REDUCTION AND RESOURCE OPTIMIZATION**
 - AUTOMATES TASKS AND OPTIMIZES PROCESSES, REDUCING COSTS.
- **ENHANCED CUSTOMER EXPERIENCE:**
 - DELIVERS PERSONALIZED RECOMMENDATIONS, REAL-TIME SUPPORT, ENGAGING INTERACTIONS.
- **ACCELERATED RESEARCH AND DEVELOPMENT**
 - GENERATES NOVEL IDEAS, SIMULATES EXPERIMENTS, OPTIMIZES DESIGNS, LEADING TO FASTER INNOVATION.
- **NEW REVENUE STREAMS AND BUSINESS MODELS**
 - CREATES UNIQUE PRODUCTS/SERVICES, ENABLES NEW DATA-DRIVEN BUSINESS MODELS, MONETIZES AI CONTENT.

GENERATIVE AI: OPPORTUNITY KNOCKS FROM THE CENTRE OF THE BOX

THERE ARE A NUMBER OF UNIQUE OPPORTUNITIES FOR KEY LEADERS IN TECHNOLOGY TO DRIVE THE LANDSCAPE

A TRANSFORMATIVE TECHNOLOGY:

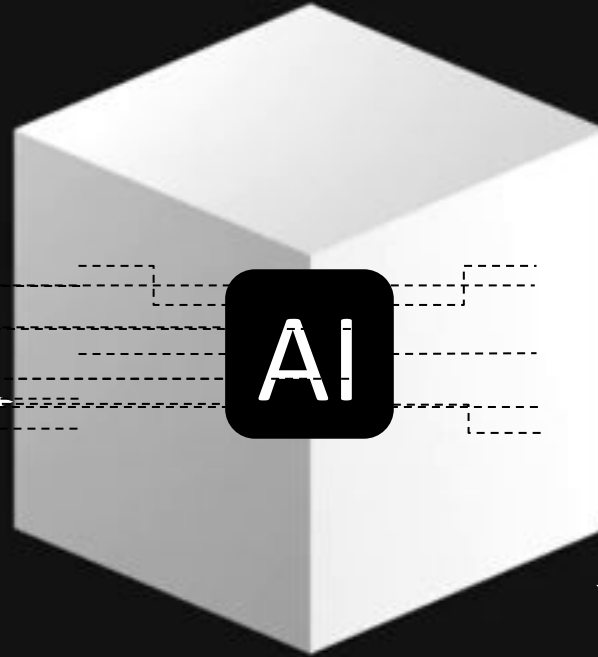
GROUNDBREAKING ADVANCEMENT ON PAR WITH THE ADVENT OF THE INTERNET, WITH GREAT OPPORTUNITY FOR ECONOMIC GROWTH

FOCUS ON APPLICATION:

WHILST LARGE LEARNING MODEL DEVELOPMENT IS COSTLY. FOCUS SHOULD BE TO REAP THE REWARDS BY APPLICATION TO REVOLUTIONIZE USE CASES FOR INDUSTRY AND PROCESSES.

DEMOCRATIZING RESPONSIBLE AI

USE AI RESPONSIBLY, THERE IS NEED TO MAKE AI TOOLS WIDELY AVAILABLE AND TEACH PEOPLE HOW TO USE THEM.



LEGAL & REGULATORY IMPACT:

ADDRESSING UNCERTAINTIES IN DATA PROTECTION, INTELLECTUAL PROPERTY, AND PRODUCT SAFETY LAWS WILL REMOVE BARRIERS TO GENERATIVE AI ADOPTION.

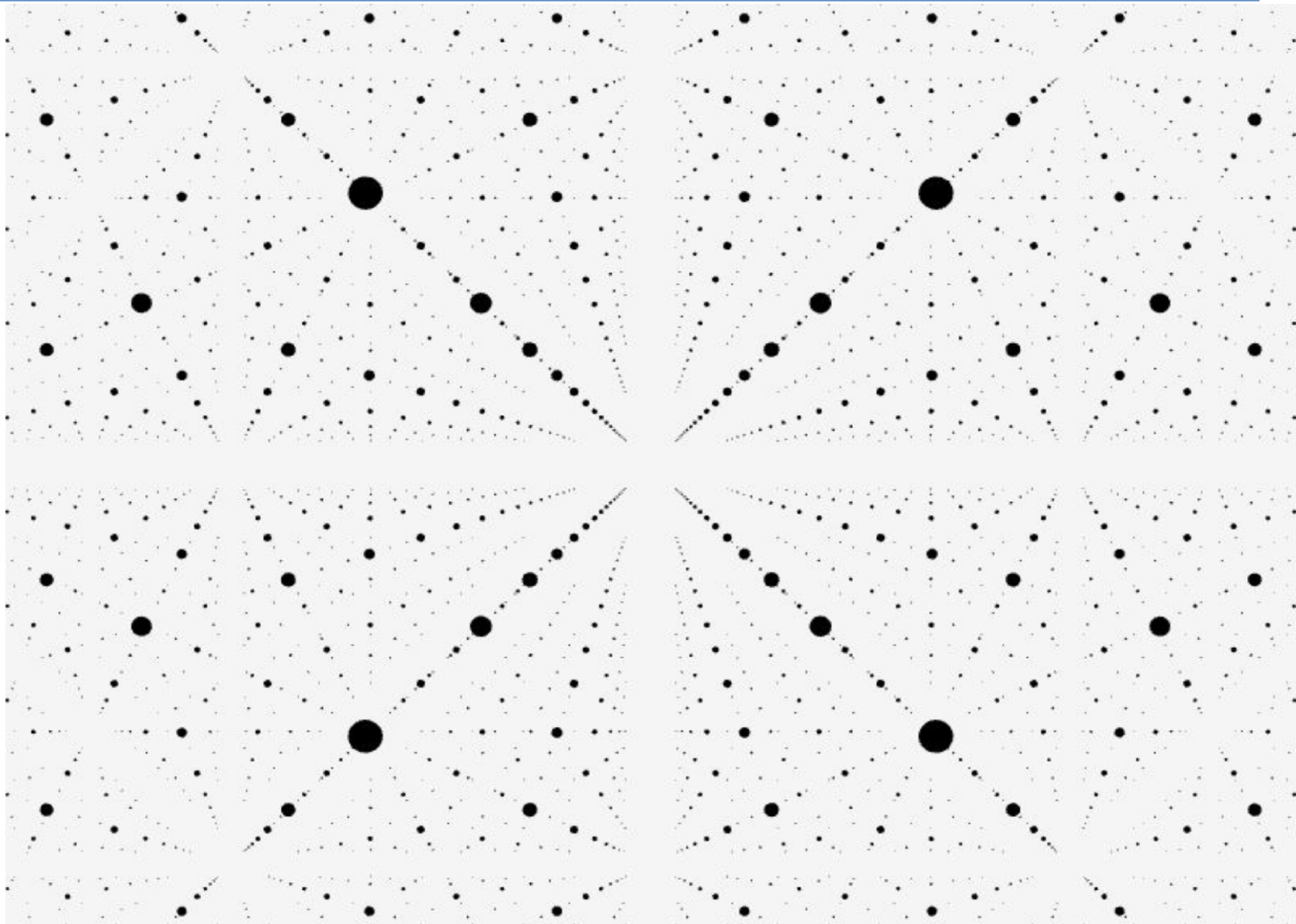
STRATEGIC POLICY DIRECTION:

POLICYMAKERS CAN INCENTIVIZE AI ADOPTION THROUGH MEASURES SUCH AS ATTRACTING INVESTMENTS FROM HYPERSCALERS AND OFFERING TAX INCENTIVES FOR BUSINESSES INTEGRATING GENERATIVE AI INTO EXISTING OPERATIONS.

BUILDING REG CAPABILITIES:

INVESTMENT IN REGULATORY CAPACITY IS ESSENTIAL TO ENSURE EFFECTIVE ENFORCEMENT OF AI FRAMEWORKS AND RESPONSIBLE AI PRACTICES.

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**WHATS HAPPENING
TO OUR JOBS?**



COMPANIES COULD FACE BANKRUPTCY IF THEY FAIL TO ADAPT TO AI ADVANCEMENTS

KODAK: Failed to embrace digital photography, leading to bankruptcy.

BLOCKBUSTER: Overtaken by streaming services due to a lack of innovation.

TAXI COMPANIES: Disrupted by ride-sharing apps like Uber and Lyft.

TO ADVANCE, SURVIVE AND EXCEL
INNOVATE, ADAPT, AND ANTICIPATE TO REMAIN COMPETITIVE

NOKIA: Mobile phone giant failed to adapt to the smartphone revolution.

BLACKBERRY: Lost market share due to their outdated OS and lack of innovative features

TOYS R US: Toy retailer struggled to compete with online retailers like Amazon

COMPANIES RELYING ON REPETITIVE TASKS

Businesses with heavily manual and repetitive processes (e.g., data entry, customer service) risk being outcompeted by AI-driven automation, leading to loss of market share and revenue.



COMPANIES IGNORING DATA-DRIVEN INSIGHTS

Organizations that don't use AI to analyse data and gain valuable insights will miss opportunities for optimization, innovation, and informed decision-making, leading to inefficiencies and missed growth potential.

COMPANIES LACKING PERSONALIZATION

Businesses that fail to leverage AI to understand customer preferences and deliver personalized experiences will struggle to retain customers in a market where competitors excel in tailoring offerings.

COMPANIES WITH OUTDATED BUSINESS MODELS

Industries ripe for disruption by AI-powered innovations (e.g., transportation with self-driving cars, healthcare with AI diagnosis) may see traditional players struggling if they don't adapt their business models to incorporate or compete with new technologies.

COMPANIES SLOW TO INNOVATE

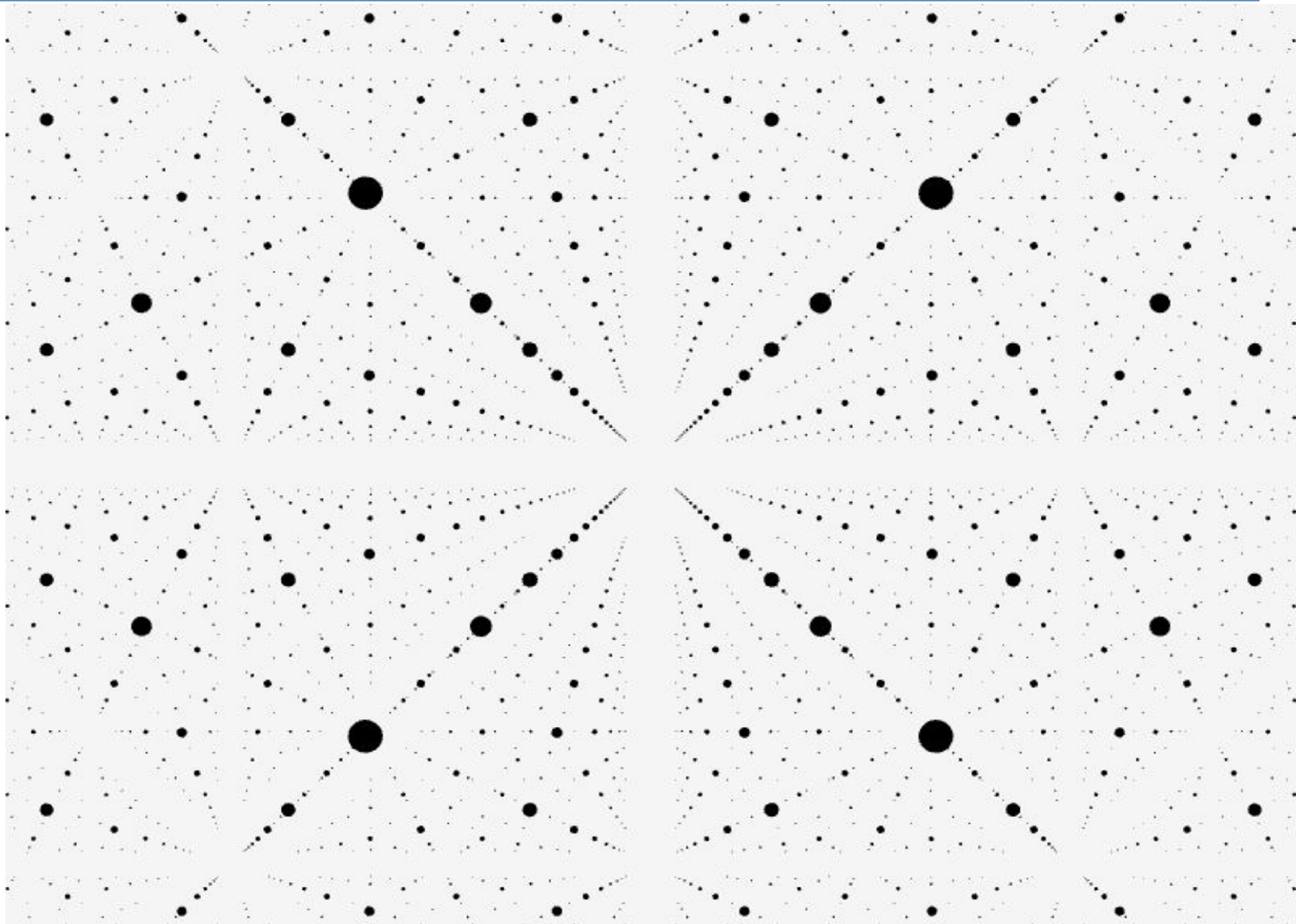
In a rapidly changing AI landscape, companies that resist innovation or are slow to adopt new AI technologies risk being left behind by more agile and forward-thinking competitors.

ALL TYPES OF INDUSTRY WILL NEED TO ADAPT

- **FINANCE:** FINANCE INDUSTRY HAS ALREADY BEGUN TO EMBRACE AI TO AUTOMATE TASKS LIKE FRAUD DETECTION, RISK ASSESSMENT, AND CUSTOMER SERVICE, IMPROVING DECISION-MAKING SPEED AND ACCURACY, BUT RAISES CONCERNS ABOUT POTENTIAL BIAS.
- **EDUCATION:** AI HAS THE POTENTIAL TO TRANSFORM THE EDUCATION INDUSTRY BY PROVIDING PERSONALIZED LEARNING, AUTOMATES ADMINISTRATIVE TASKS, AND CREATES TAILORED COURSE MATERIALS, BUT RAISES ETHICAL CONCERNS ABOUT BIAS.
- **HEALTHCARE:** AI HAS REVOLUTIONIZED THE HEALTHCARE INDUSTRY BY IMPROVES DIAGNOSTICS, PERSONALIZES TREATMENTS, REDUCES MEDICAL ERRORS, AND ENHANCES PATIENT CARE.
- **MANUFACTURING:** ONE OF THE EARLY ADOPTERS OF AI BY OPTIMIZING PRODUCTION, PREDICTS MAINTENANCE, AIDS QUALITY CONTROL, AND BOOSTS EFFICIENCY, BUT MAY LEAD TO JOB DISPLACEMENT.
- **RETAIL:** AI PERSONALIZES SHOPPING EXPERIENCES, IMPROVES INVENTORY MANAGEMENT, INCREASES SALES, BUT MAY FURTHER CONCENTRATE POWER IN THE HANDS OF LARGE RETAILERS REDUCING COMPETITION AND CHOICE.



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WHAT'S THE GAME
PLAN TO PROTECT
COMPANIES AND
JOBS?**



WHICH SKILLS AND ROLES NEEDED AFTER EXTENSIVE AI ADOPTION

BY FOCUSING ON DEVELOPING THESE SKILLS, INDIVIDUALS AND ORGANIZATIONS CAN ENSURE THEY THRIVE IN THE AGE OF AI.

AFTER FULL AI ADOPTION, THE FOLLOWING SKILLS BECOME CRUCIAL:

- ✓ **CRITICAL THINKING AND PROBLEM-SOLVING:** AI CAN ANALYZE DATA AND OFFER SOLUTIONS, BUT HUMANS ARE NEEDED TO EVALUATE, INTERPRET, AND MAKE FINAL DECISIONS.
- ✓ **CREATIVITY AND INNOVATION:** AI CAN GENERATE IDEAS, BUT HUMANS ARE NEEDED TO CONCEPTUALIZE, REFINE, AND IMPLEMENT TRULY NOVEL SOLUTIONS.
- ✓ **EMOTIONAL INTELLIGENCE AND INTERPERSONAL SKILLS:** AI CAN HANDLE CUSTOMER INTERACTIONS, BUT HUMANS ARE NEEDED FOR EMPATHY, UNDERSTANDING NUANCES, AND BUILDING RELATIONSHIPS.
- ✓ **ADAPTABILITY AND CONTINUOUS LEARNING:** AI IS CONSTANTLY EVOLVING, SO HUMANS NEED TO BE ABLE TO QUICKLY LEARN NEW TECHNOLOGIES AND ADAPT TO CHANGING WORK ENVIRONMENTS.
- ✓ **TECHNICAL SKILLS:** WHILE AI AUTOMATES TASKS, UNDERSTANDING THE UNDERLYING TECHNOLOGY AND BEING ABLE TO TROUBLESHOOT ISSUES BECOMES ESSENTIAL.
- ✓ **DATA LITERACY:** THE ABILITY TO UNDERSTAND, INTERPRET, AND COMMUNICATE DATA INSIGHTS WILL BE CRUCIAL IN LEVERAGING AI'S FULL POTENTIAL.

BUILDING INTERNAL CAPABILITY

COMMUNICATE CLEARLY.

Be clear about the goals and objectives of AI and ML integration. Highlight how these technologies align with your organisation's strategic vision and how they can lead to improved efficiency, cost savings, and better decision-making.

TRAIN AND UPSKILL.

Offer training programmes to equip employees with the necessary skills to work with AI and ML technologies. This will empower employees and encourage them to see these technologies as tools that can help them with their work.



USE CHANGE MANAGEMENT.

Change management principles can help to ensure a smooth transition. Establish a change management plan that addresses the people, processes, and technology sides of AI adoption.

EMPHASIZE CONTINUOUS LEARNING.

AI technologies are constantly evolving. A skilling strategy must remain open to adapt.

CELEBRATE ACHIEVEMENTS.

Celebrate AI-related milestones and achievements. This recognition will help to encourage greater engagement.

DRIVING BUSINESS VALUE FROM AI INITIATIVES

ESTABLISH A ROADMAP.

Define your AI and ML goals and metrics, and develop a short-term and long-term framework to help you achieve them.



BE CLEAR ABOUT YOUR CAPABILITY.

There is little value in pursuing an AI and ML opportunity if you are not well equipped. Crucial for teams to assess the gaps in the organisation and then set about filling them.

ASSESS PROGRESS

Track performance and adapt them to your organization's and business environment's changing needs.

SEPARATE THE HYPE FROM REALITY

Manage expectations and ensure capabilities align with AI/ML project goals.

PRIORITISE USES CASES

Start by identifying the problems you want to solve. Ask business leaders how AI could help the business and which problems it could address.

EVOLVING IMPACT OF AI ON EMPLOYMENT: TRAJECTORY OF GROWTH AND DISRUPTION

GENERATIVE AI WILL GREATLY CHANGE HOW WE WORK. IT CAN IMPROVE HOW BUSINESSES WORK AND GROW THE ECONOMY, BUT IT WILL REQUIRE PEOPLE TO LEARN NEW SKILLS FOR THEIR JOBS.

DISRUPTION

ACCELERATION OF AUTOMATION: Generative AI will accelerate the automation of work, potentially impacting up to 30% of current work hours by 2030.

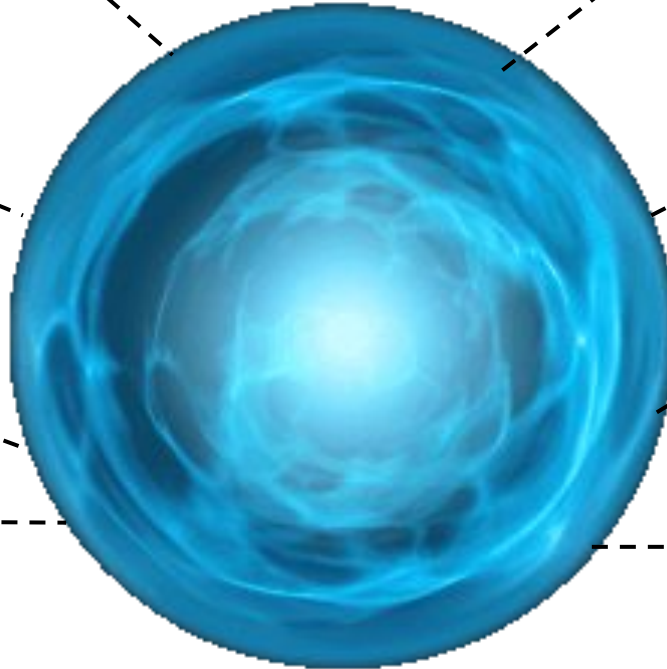
UNEVEN IMPACT ON OCCUPATIONS:

- **Most Affected:** Office support, customer service, food service
- **Enhanced, Not Eliminated:** creative, business & legal professionals

PRODUCTIVITY BOOST: Generative AI is predicted to add \$2.6 trillion to \$4.4 trillion annually to the US economy.

WAGE IMPACTS:

- **Increased Demand:** Higher wages for high-wage jobs requiring creativity, expertise
- **Potential Stagnation/Decline:** Lower wages for jobs with easily automatable tasks



GROWTH

STRATEGIC WORKFORCE PLANNING: Businesses must assess AI's impact on their workforce and develop strategies for reskilling and upskilling employees.

INVESTMENT IN HUMAN CAPITAL: Government and businesses need to invest in education and training to equip workers with the skills needed for the AI-driven economy.

SUPPORT FOR WORKERS IN TRANSITION: Policies should be implemented to support workers who may be displaced by automation, including financial assistance, job training, and career counselling.

ETHICAL CONSIDERATIONS: Proactive measures are crucial to ensure the responsible and equitable use of AI, mitigating potential biases and unintended consequences.

CAREFUL PLANNING AND INVESTMENT IN EDUCATION AND TRAINING ARE KEY TO SUCCESSFULLY USING AI IN THE FUTURE.

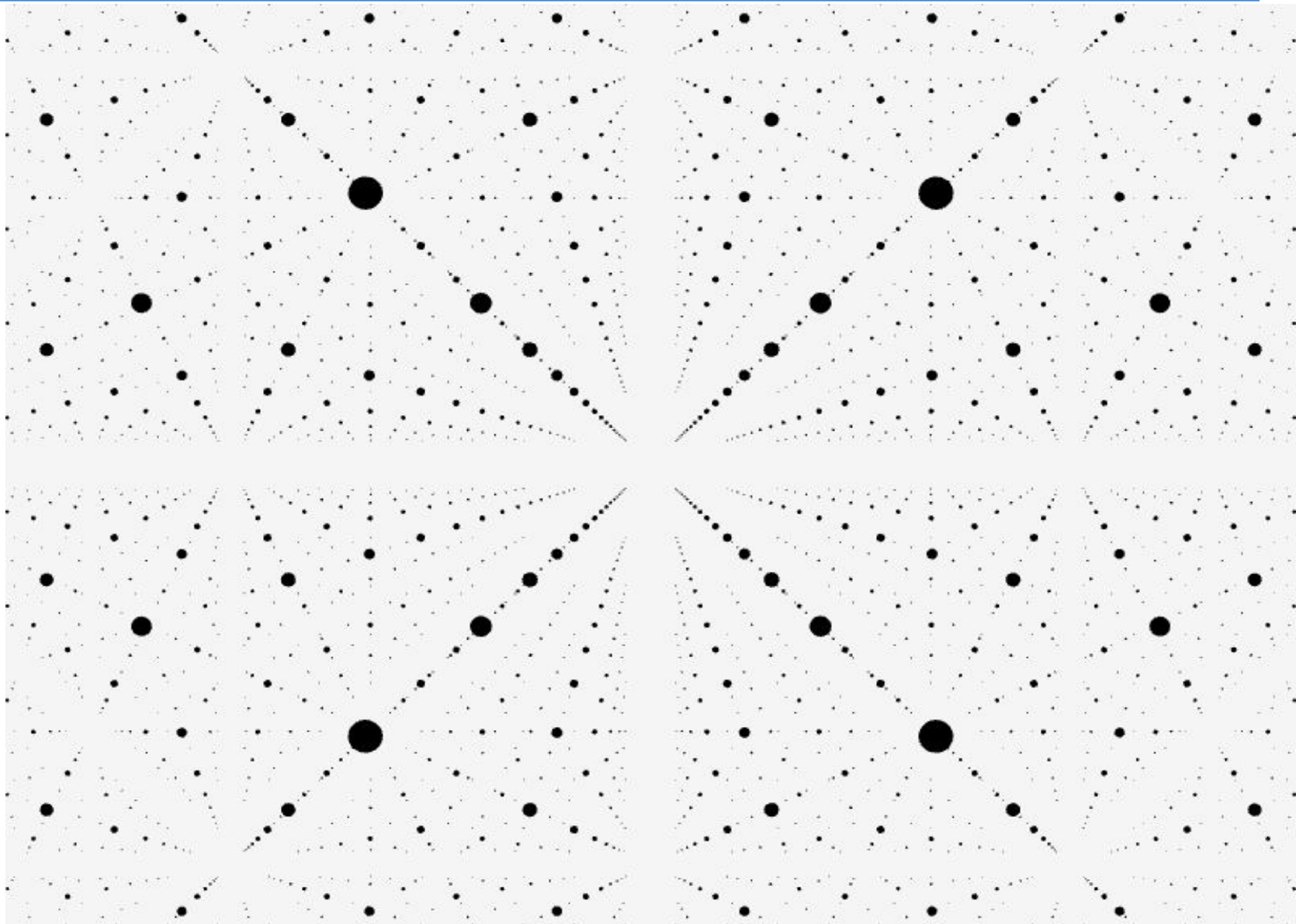
BUILD YOUR OWN FUTURE

CHALLENGES EXIST BUT THE OPPORTUNITIES FOR GROWTH, INNOVATION, AND SOCIETAL ADVANCEMENT ARE IMMENSE

The rise of "hybrid jobs" (where humans and AI collaborate) will quickly become prevalent. In these scenarios, AI handles data analysis, pattern recognition, and other tasks that computers excel at, while humans focus on creativity, critical thinking, and emotional intelligence. This synergy between humans and AI can lead to enhanced productivity, innovation, and improved decision-making.

- **AI: Catalyst for New Jobs**
 - **Demand for skilled AI professionals:**
 - Data scientists
 - AI engineers
 - Machine learning specialists
 - **High-paying, intellectually stimulating roles**
 - **Essential for AI innovation & growth**
- **Navigating the AI Era: A Call to Action**
 - **Individuals:**
 - Embrace lifelong learning
 - Develop adaptable skills
 - Stay informed about AI advancements
 - **Organizations:**
 - Invest in AI technologies
 - Upskill the workforce
 - Foster a culture of innovation
 - **Policymakers:**
 - Invest in AI-focused education & training
 - Establish ethical AI guidelines
 - Create safety nets for workers in transition

SHORT ANSWER
LEARN AND ADAPT



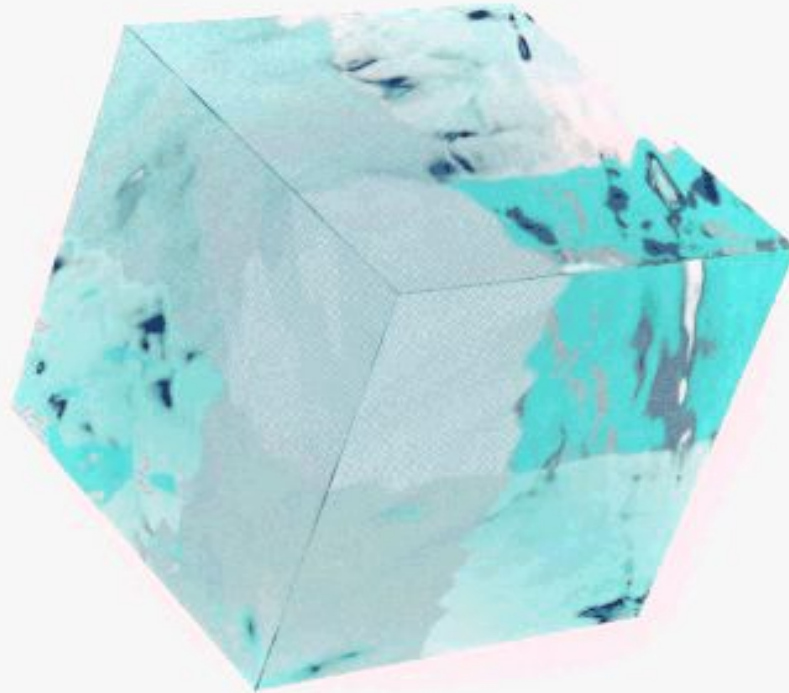
EVOLVING IMPACT OF AI ON EMPLOYMENT: TRAJECTORY OF GROWTH AND DISRUPTION

GENERATIVE AI'S POTENTIAL IMPACT ON JOBS, PARTICULARLY WHITE-COLLAR ONES, IS A MAJOR CONCERN. WHILE RESEARCH HASN'T PREDICTED SPECIFIC JOB LOSSES, IT'S TOO EARLY TO RULE THEM OUT. HISTORY SHOWS TECHNOLOGY OFTEN DISRUPTS JOBS INITIALLY, BUT EVENTUALLY LEADS TO ECONOMIC AND EMPLOYMENT GROWTH.



GENERATIVE AI AND OTHER ONGOING TRENDS MAY NECESSITATE MORE WORKERS CHANGING OCCUPATIONS BY 2030 THAN PREVIOUSLY ESTIMATED. THIS MEANS INDIVIDUALS MAY NEED TO SWITCH CAREER PATHS DUE TO FACTORS LIKE AUTOMATION, E-COMMERCE GROWTH, OR ENVIRONMENTAL SHIFTS, AS DEMAND FOR THEIR CURRENT JOBS DECLINES. THE WINNERS WILL BE THE ONES WHO LEARN AND ADAPT.

THANK YOU FOR LISTENING



GOOD LUCK ON YOUR AI JOURNEY
AFTAB ZIKRIA