AI 101

Thursday, December 4th 3:30 – 4:00 PM EST

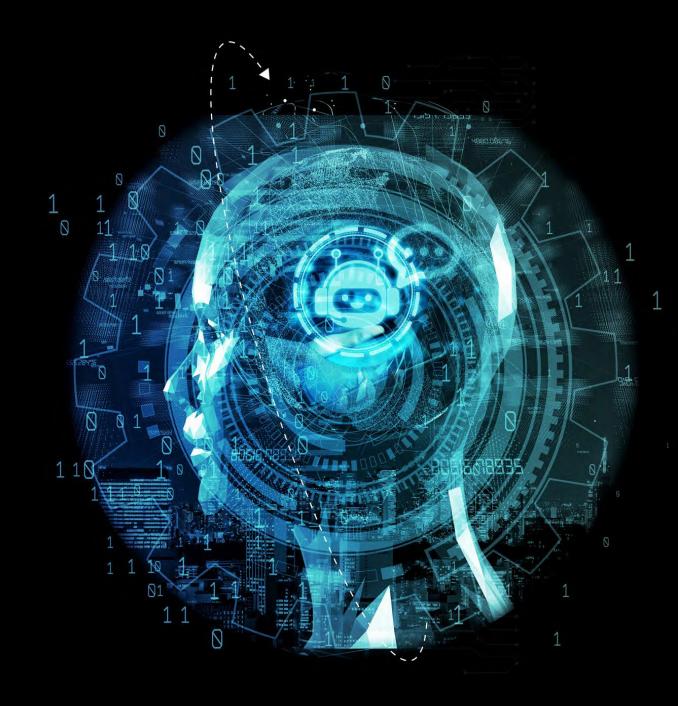


CCAO | Al Workshop Agenda

Agenda and Topics

TIME	MODULE	Presenter	ACTIVITY DESCRIPTION	
3:30 – 3:40 10 min	AI & GENAI 101	AD Desai	Provide level-setting and overview of AI, including the difference between AI and GenAI, foundational elements of the technology and an overview of AI Risk and Governance.	
3:40 – 4:00 20 min	PeoplePrism Demo	Mike Daggitt	Overview of advanced analytics & AI platform & interactive demo of solution	
4:00 – 4:30 30 mins	Hands On Al Training	AlOwl	Interactive session on the application of AI Tools in day-to-day	

Introduction



Meet the Presenters



Adarsh (AD) Desai
Deloitte AI & Data Leader for Ohio



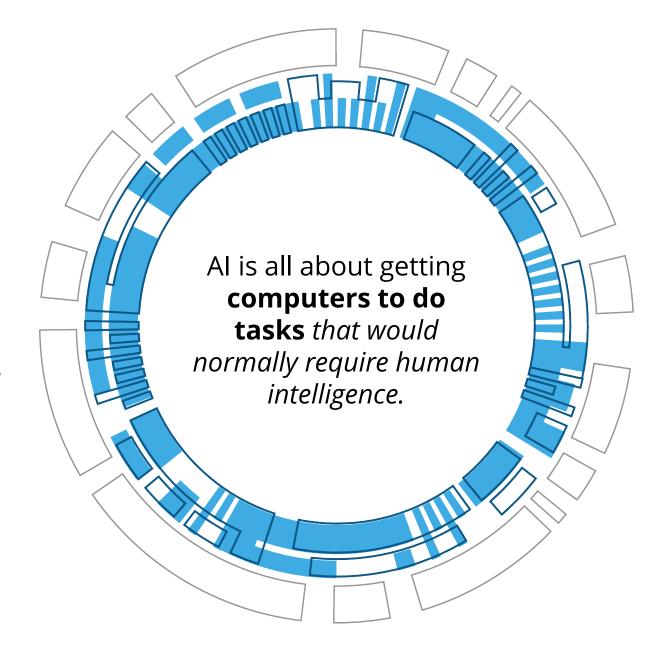
Mike Daggitt
People Prism Leader

What is Artificial Intelligence?

A SIMPLE DEFINITION

Artificial intelligence (AI) is the capability of a computer program, using math and logic, to **simulate human cognitive functions** like:

- ✓ Mimicking human cognitive functions
- ✓ Gathering information and solving problems
- ✓ Using math and logic to simulate reasoning
- ✓ Learning from new information and making decisions
- ✓ Generating new content



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Spectrum of AI Capabilities

Email Autocomplete

Hope ...all is well.

Automate

Includes executing processes that require little human judgment or intervention.

Movie recommendations



Predict

Includes comprehensively analyzing large amounts of detailed data to identify highimpact patterns and trends to generate a series of predicted or possible outcomes.

> **Auto-generated News** or Captions



Interpret

Includes reading documents, converting text and speech into data, and deriving language analysis from that data.



Airport Security using Eye Scanner



Detect

Includes identifying objects and patterns through the analysis of documents, pictures, and video streams.

Smart Assistants



Interact

Includes engaging with humans in real-time, two-way communication, acting as a virtual assistant.



Simulate

Includes creating a virtual representation that serves as a real-time digital counterpart of a physical object or process, a technique called "digital twin."

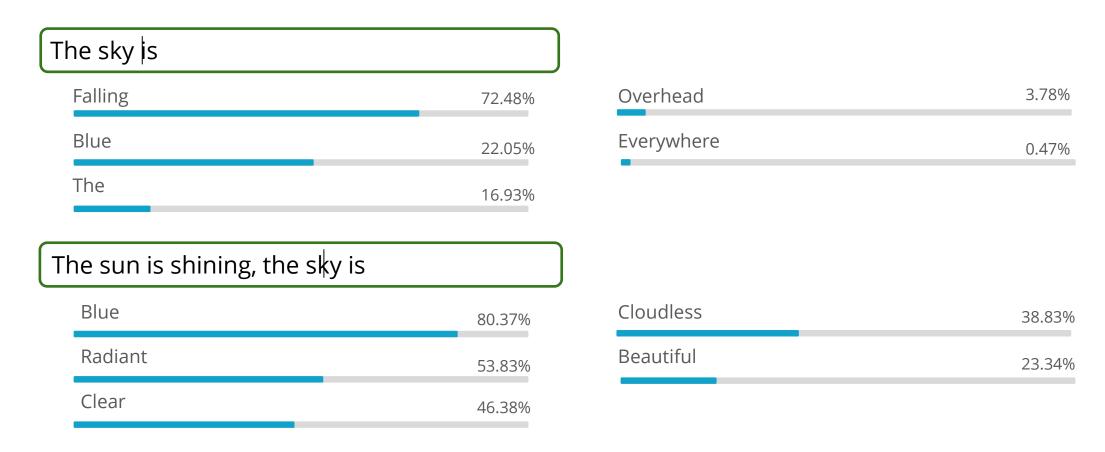
Generated Art

Create

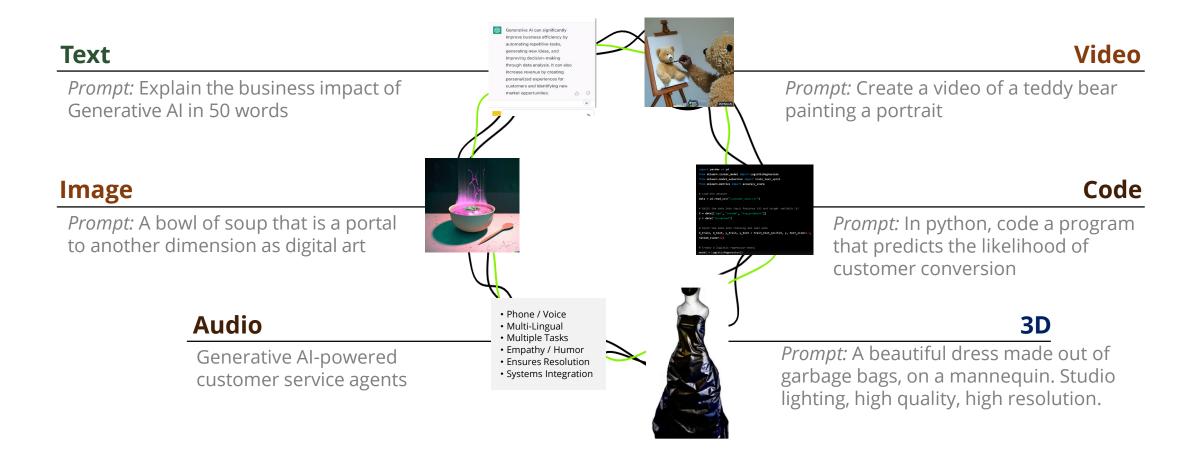
Includes generative capabilities to create new content in text, images, audio, videos, and simulations.

What is a Large Language Model (LLM)?

A *Language Model* is a probability distribution over sequences of words. Given a **sequence of words**, a language model **predicts words** that are **likely to follow**:



Generative AI (GenAI) Capabilities



Potential Uses of GenAl

Summarization

Generate a concise and coherent summary of a long text or a collection of texts

E.g., Reports, Policy Documentation

Summaries

Conversational Q&A

Generate a natural language answer to a natural language question based on a given text or a knowledge base

E.g., Policy Document O&A



Content Generation

Generate content based on a set of input examples, documents, data and/or a specific theme or topic E.g., Training Content generation, Synthetic Data Generation



Reasoning

Generate logical analysis (inference, deduction and/or explanation of relations) given a context or knowledge base *E.g., Legislation Impact Analysis*

Content Transformation

Generate content by converting it into a new specified type, format or style E.g., Text to Code, Language Translation





Image Generation

Generate images from text prompts (descriptions, edits, etc.)

E.g., Training, Public Service

Announcements



Generate a category or label to a given input

E.g., Help Desk Ticket Classification



Extraction

Generate specific information or entities from a given input

E.g., Extraction of Key Information from Documents / Forms

The Evolution of AI Capabilities

The Powers of Humans + Machine

Agentic AI will revolutionize how humans and machines work together to solve problems faster and more accurately, through innovative solutions that can propel the workforce to the next level of the technological evolution.



Agentic Al

Agents and Agentic Workflows integrate RPA, Intelligent Automation and LLM/LMM chatbots to execute a variety of tasks alongside humans.



questions on unstructured data and surface insights across domains. Based



GenAl can provide reasoning to answer on advancements in transformers.

Robotic Process Automation

Automation of basic tasks through simple scripts; structured, rule-based processes to handle repetitive tasks (e.g., data entry, basic customer queries).



MATURING

Intelligent Automation

Automation of more complex tasks using RPA with AI

technologies (e.g., intent-based

chatbots, phishing classification).

Time

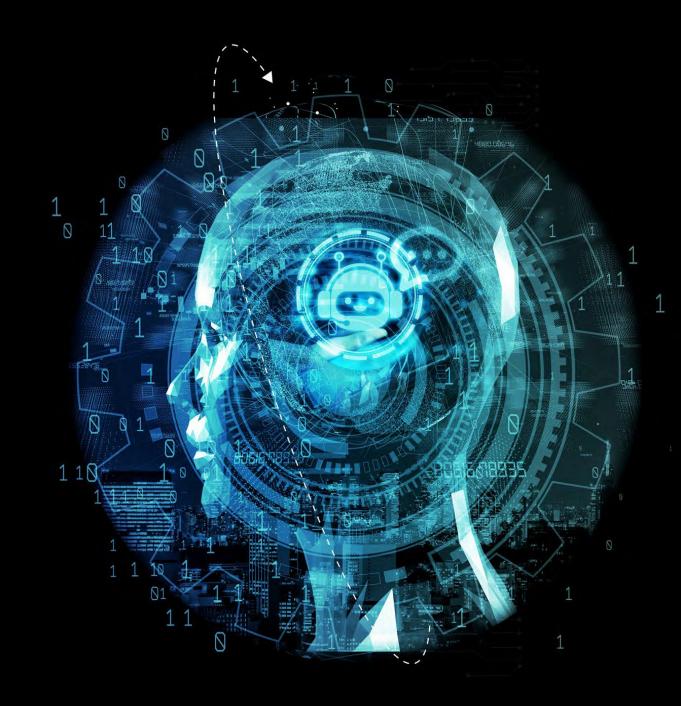
EMERGING

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Capability

PeoplePrism™

Please contact Mike Daggitt (mdaggitt@deloitte.com) if you'd like to have a follow-up.



About PeoplePrism™

PeoplePrism use predictive analytics, geospatial capabilities, and the largest known population insights dataset to provide unique and compelling insights into people, places, and environmental impact.

DATA

12.5M

Ohio Adults

4.9M

Ohio Households



Customizable Personas & Outreach Playbooks

1,700+

Lifestyle Variables

Data is refreshed every month



Granular reporting options include households. neighborhoods, and counties







10+ Years of history



REPRESENTATIVE CAPABILITIES

Contextual Data Layers









Footage





Likely

Unemployed

Area Median Index



Household Composition

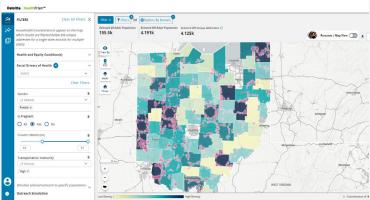


Distance to Care

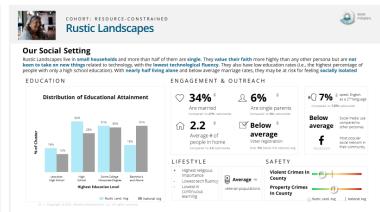


Fransportation Insecurity

Analytics and Dashboarding



Outreach & Engagement

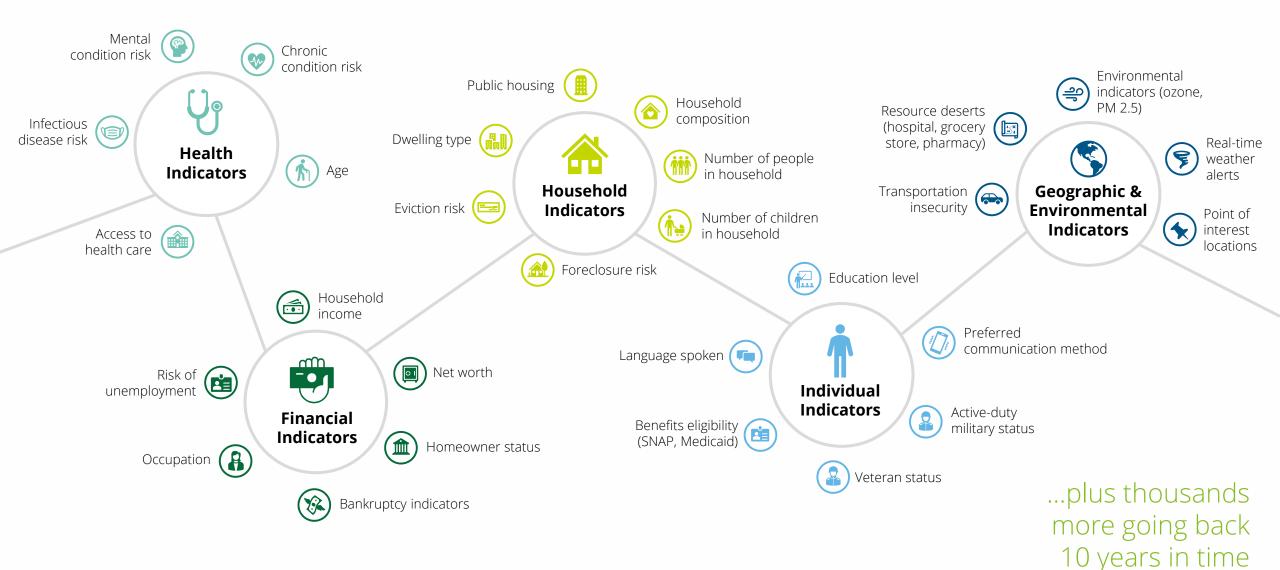


Use powerful insights in PeoplePrism to interconnect and draw meaningful conclusions across multiple use cases

STATE & COUNTY GOVERNMENT DOMAINS

Public Health	Behavioral Health	Human Services	Medicaid	Family Assistance
 Healthcare Analyze supply and demand to improve health care access and utilization Inform specialty-specific resource allocation (e.g., obstetrics, oncology, cardiology, neurology) Maternal & Infant Health Reduce NAS births Improve maternal care access and utilization Rural Health Identify citizens at elevated risk for adverse health outcomes living in rural areas with a distressed healthcare system 	 Substance Use Disorder Analyze supply and demand to improve SUD treatment access and utilization Implement more targeted preventative measures for specific substance use disorders Mental Health Find populations at high risk for depression Improve mental health services access and utilization 	 Eligibility & Enrollment Discover those eligible-but-not-enrolled in benefits (e.g., SNAP, TANF, WIC, LIHEAP) Affordable Housing Identify those who are at risk for losing their home due to foreclosure or eviction Identify those living in overcrowded housing with the financial means to move to a larger dwelling, freeing up capacity for those seeking their first starter home. 	 Eligibility & Enrollment Conduct targeted outreach to mitigate disenrollment due to more timely redeterminations and work requirements Improve Medicaid & Medicare services utilization Discover pathways to self-sufficiency Veteran Transition Identify Veterans utilizing Medicaid and willing to transition to VA healthcare to save on Medicaid spend and move Veterans to a more tailored set of services 	 Child Care Expand access in childcare and daycare availability deserts Child Welfare Increase foster home recruitment Food Insecurity Discover those eligible but not enrolled for free and reduced school lunches Analyze supply and demand to improve food source (e.g., grocery stores, food pantries) access and utilization
<	Health Outcomes	Eligibility & Enrollment F	Program Evaluation ——	\rightarrow

PeoplePrism Data Categories



Questions?

