

# Learn how to start your Azure AI journey from Zero to 60

by Elkhan Yusubov | Microsoft MVP & MCT RL



May 9, 2025  
5:30 PM UTC



## Elkhan Yusubov

Speaker | Author | Architect  
Founder at #CloudMarathoner



Elkhan is a Director of Cloud Infrastructure, Chief Architect, Microsoft Azure MVP and 15+ MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).



He is an active Microsoft Tech Community Contributor, Cloud Lunch and Learn Co-organizer, Learning expert and MCT Community Lead, and as well as a LinkedIn instructor with interests in Architecture, DevOps & Security.



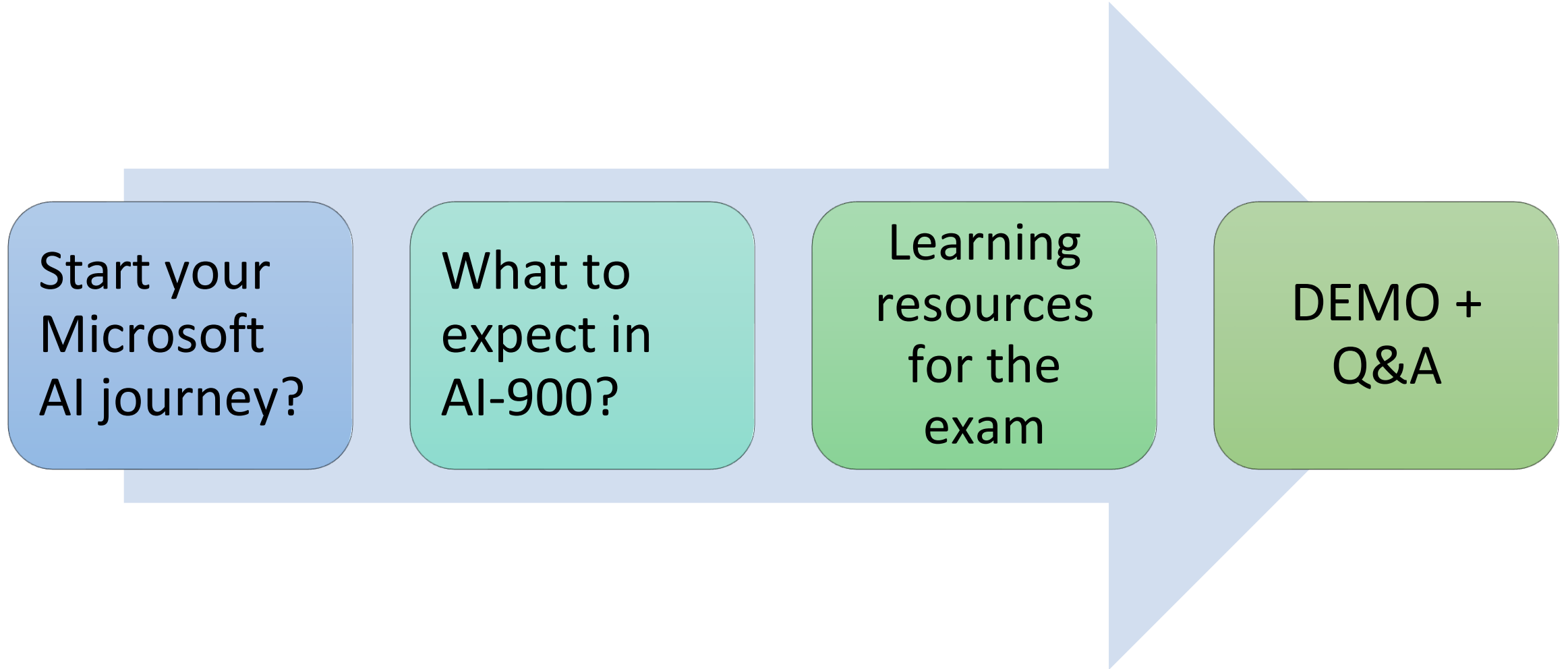
He is a frequent speaker at tech meetups and has volunteered for Give Camps, Azure Data Fest, SQL Saturdays and Microsoft community events, like this one.



And please, checkout his blog posts at Cloud Marathoner site below.

<https://theCloudMarathoner.com> 🌤️ 🏃 🏃

# What we will cover



# What we do; where we do it

## IT Engineering Services

Agile Transformation  
Cloud Adoption &  
Infrastructure Optimization  
Cybersecurity  
Data Engineering & Analytics



Defense Health  
Agency



ICE



Intel Community



USAF



US TRANSCOM



Defense  
Information  
Systems Agency

## Customer Experience

Technology Adoption  
Release Management  
Communications Management  
Change Management



General Services  
Administration



Education



IRS

Treasury

United States<sup>®</sup>  
Census  
Bureau

## Health IT

EHR Strategy & Management  
HIPAA Compliance  
Healthcare System Integration & Testing  
Patient Experience Enhancement

## Company Info

- Established: 1999
- Legal Structure: LLC
- Headquarters: Bethesda, MD
- SDVOSB Joint Ventures
- CMMI-DEV & SVC Level 3 v2.0
- ISO 9001; ISO27001; ISO20000

### Prime Vehicles/BPAs:

- GSA MAS HACS SIN
- GSA MAS Cloud SIN
- GSA MAS IT Svcs SIN
- COBRA OTA
- CIO-SP3 Small Business
- 8(a) STARS III via MPJV
- GSA MAS HACS SB & Cloud SIN SB via MPJV

Silver  
Microsoft  
Partner

Silver Datacenter  
Silver Data Analytics  
Silver Data Platform  
Silver App Dev  
Silver App Integration

aws partner  
network  
  
Select  
Consulting  
Partner

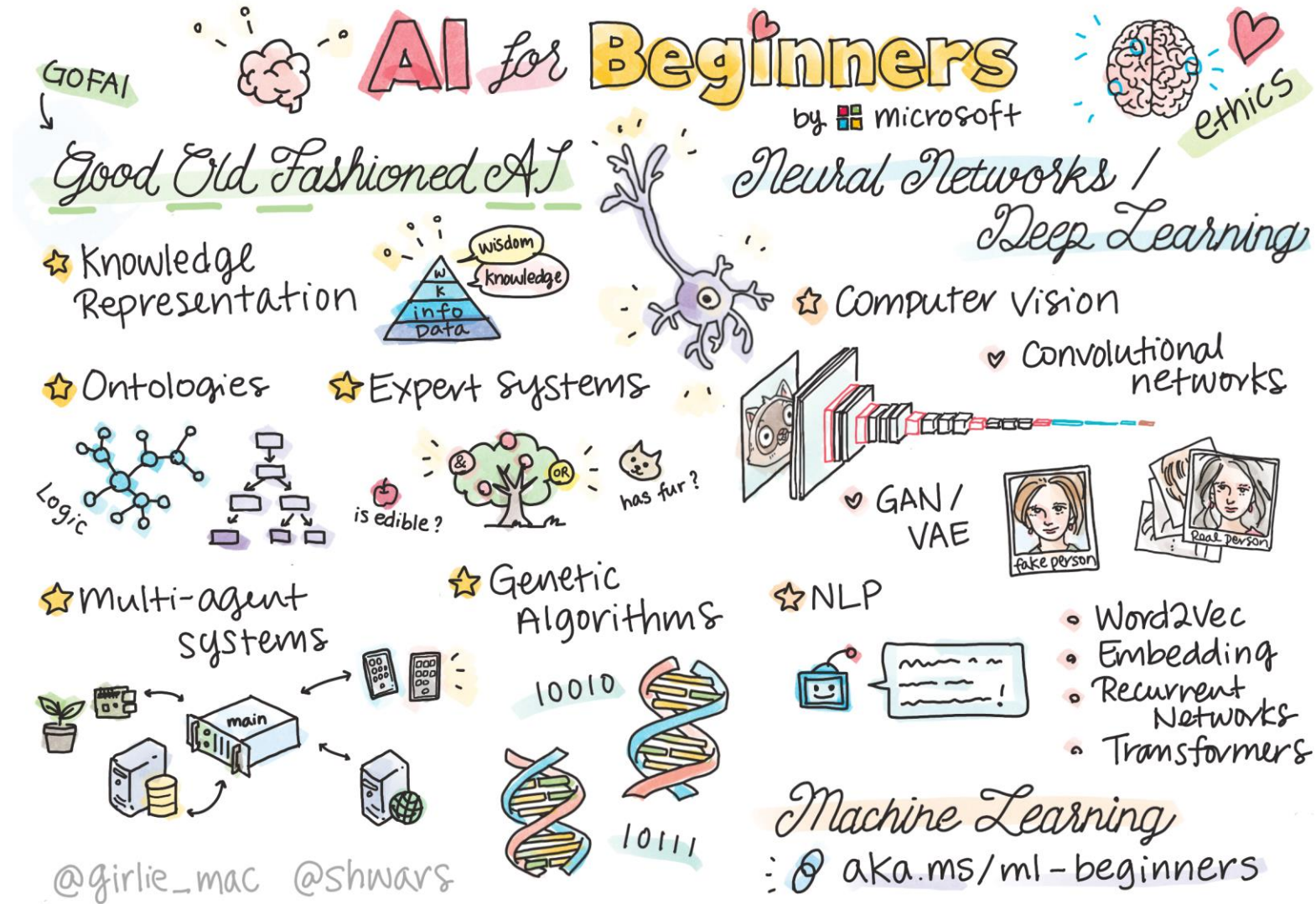


T-Rex has donated **over \$3.5M** in support of underserved youth, veterans, and local organizations.



# Where to start your Microsoft AI Journey?

- Start with AI fundamentals
- Focus on your role
- Focus on the environment
- AI learning hub
- AI learning journey assessment



# What to expect in AI-900?

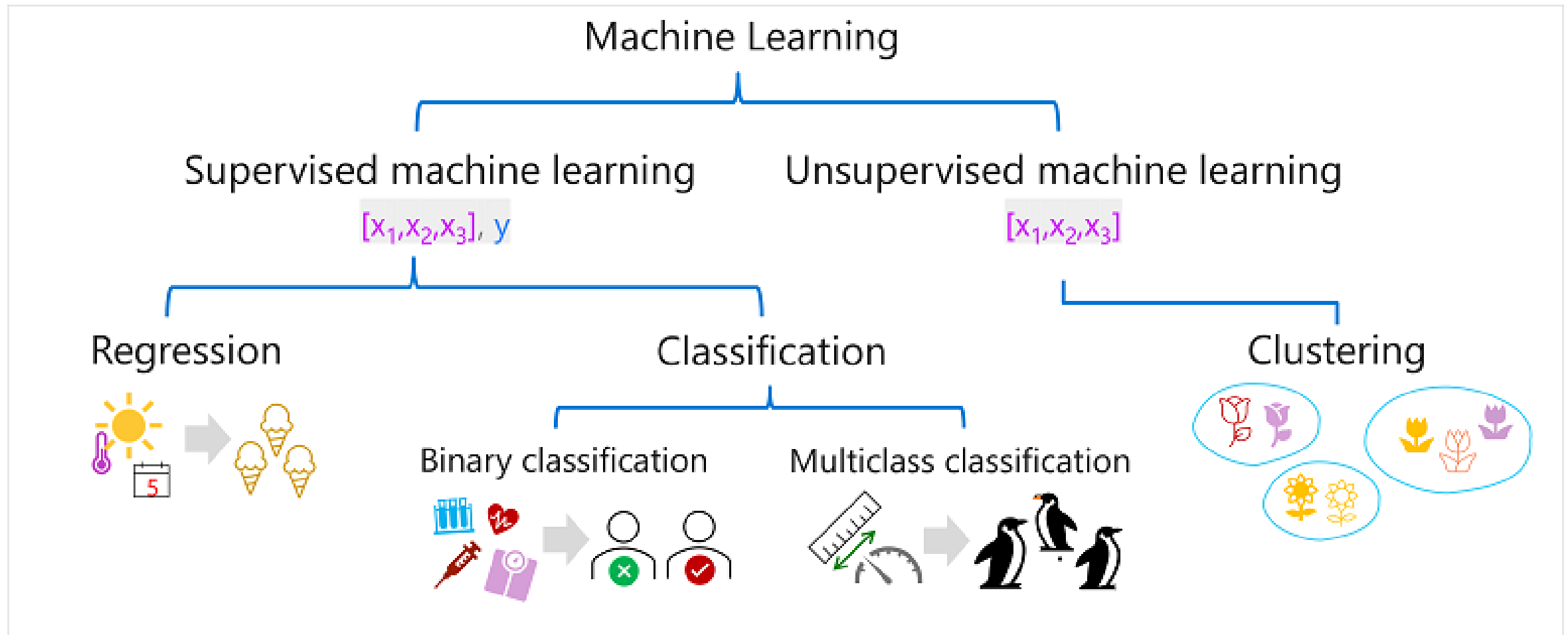
Describe Artificial Intelligence workloads and considerations	15-20%
Describe fundamental principles of machine learning on Azure	15-20%
Describe features of computer vision workloads on Azure	15-20%
Describe features of natural language processing (NLP) workloads	15-20%
Describe features of generative AI workloads on Azure	15-20%

# Describe Azure AI fundamentals and service resources

- Multi-service resource
- Single-service resources
- Azure Marketplace



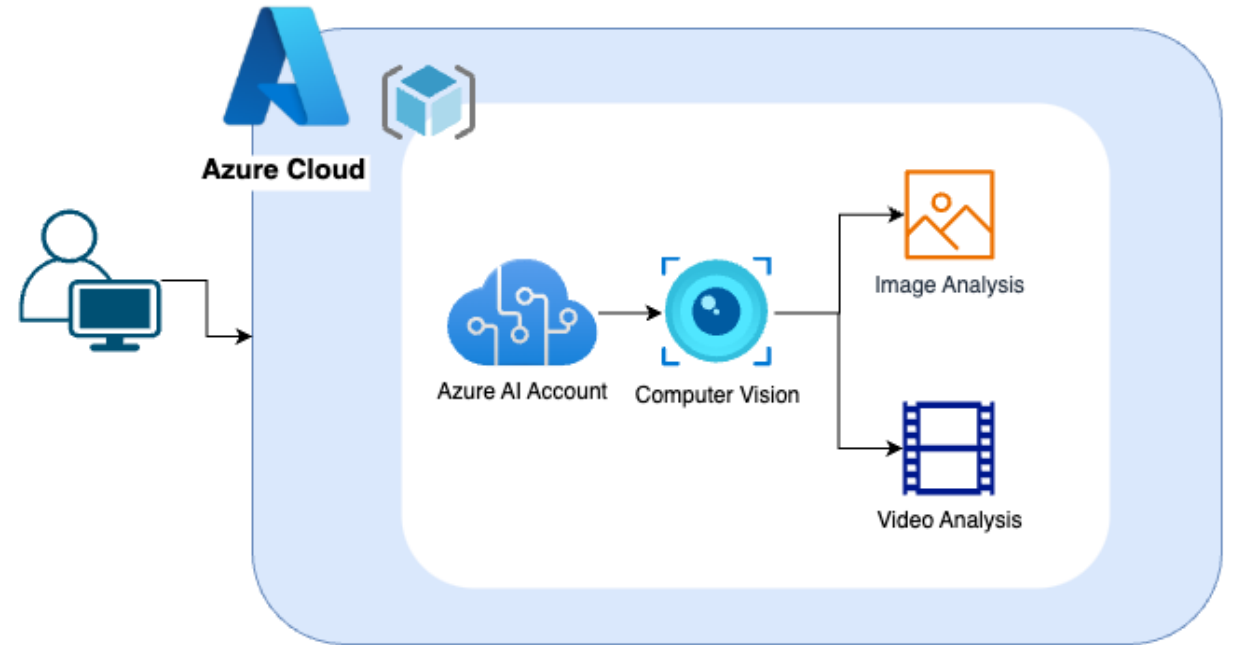
# Describe fundamental principles of machine learning on Azure





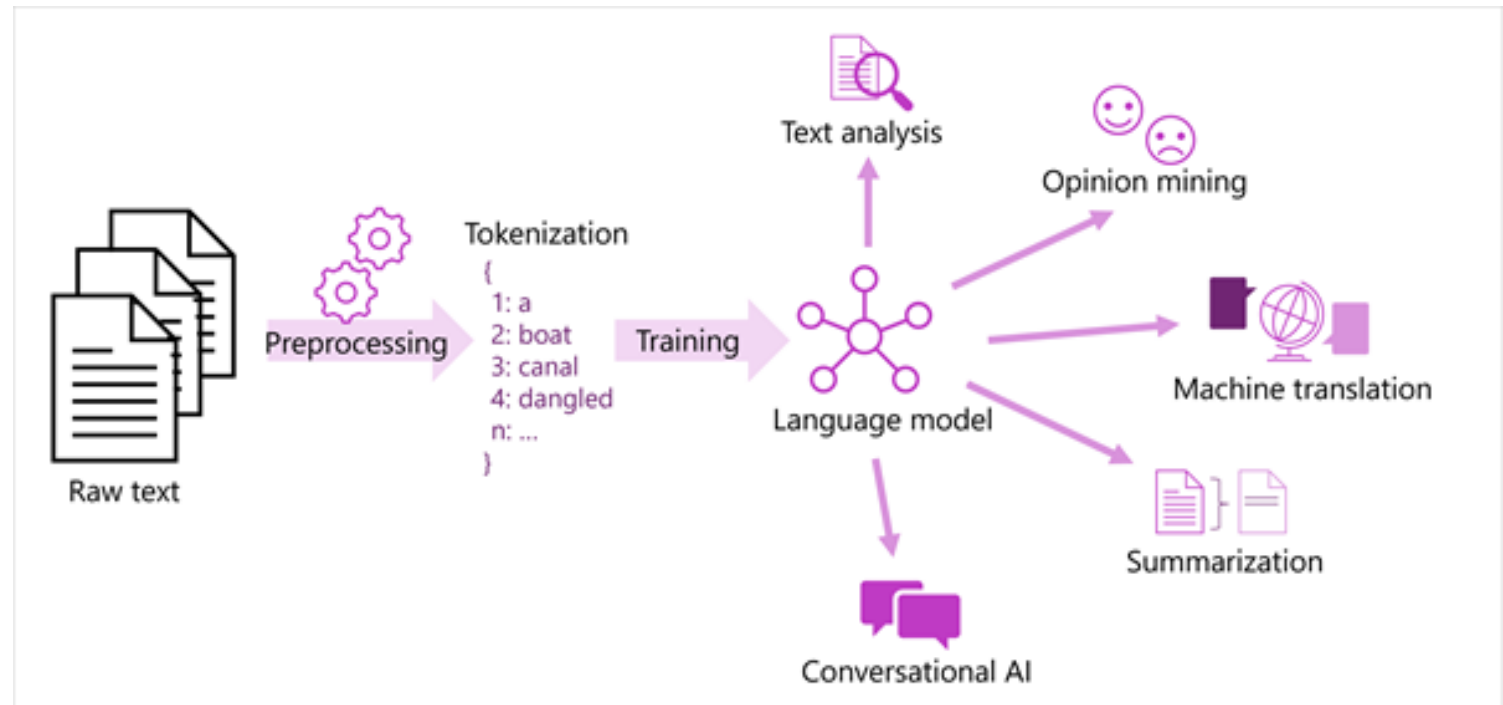
# Describe features of computer vision workloads

- Image classification
- Object detection
- OCR
- Other



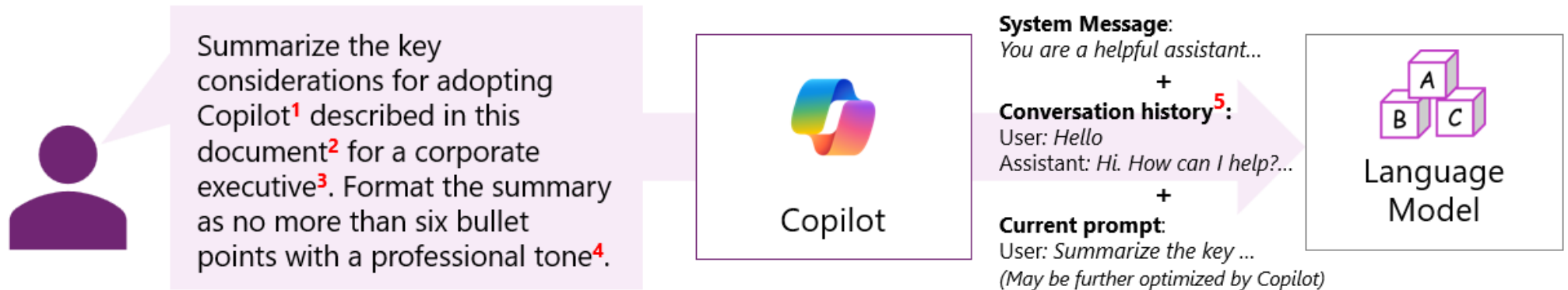
# Describe features of natural language processing (NLP) workloads

- NLP
- Tokenization
- Semantic language models
- Key phrase extraction
- Summarization, etc.



# Describe features of generative AI workloads on Azure

- What is GenAI?
- Understand differences in language models
- Improve prompt results
- Responsible AI principles



# Applied Skills – hands on practices

Applied Skills ✕

12 results for "AI"

Sort by: Alphabetical (A-Z) ▾

<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Administer Active Directory Domain Services</p> <p>Windows • Administrator • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Build AI-powered solutions by using Microsoft Azure Database for...</p> <p>Azure • Developer • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Build a natural language processing solution with Azure AI Language</p> <p>Azure • AI Engineer • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Build an Azure AI Vision solution</p> <p>Azure • Developer • Intermediate</p> <p>⊕ Add</p>
<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Create an intelligent document processing solution with Azure AI Document...</p> <p>Azure • Developer • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Defend against cyberthreats with Microsoft Defender XDR</p> <p>Microsoft Defender • Security Operations Analyst • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Deploy cloud-native apps using Azure Container Apps</p> <p>Azure • Developer • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Deploy containers by using Azure Kubernetes Service</p> <p>Azure • Administrator • Intermediate</p> <p>⊕ Add</p>
<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Develop generative AI apps with Azure OpenAI and Semantic Kernel</p> <p>Azure • AI Engineer • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Develop generative AI solutions with Azure OpenAI Service</p> <p>Azure • AI Engineer • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Implement AI models with Microsoft Power Platform AI Builder</p> <p>Microsoft Power Platform • App Maker • Intermediate</p> <p>⊕ Add</p>	<p>APPLIED SKILLS</p> <p>Microsoft Applied Skills: Train and manage a machine learning model with Azure Machine Learning</p> <p>Azure • AI Engineer • Intermediate</p> <p>⊕ Add</p>

# Learning resources for AI-900 exam

- [Microsoft Learn modules](#)
- [Exam Simulator](#)
- [Free Practice Exam](#)
- [AI leaning hub](#)
- [AI learning journey](#)
- [ML demo](#)
- [Face serviced demo](#)
- [Language understanding demo](#)
- [Explore GenAI in Azure AI Foundry](#)



# Azure always free resources

- Azure free subscription
- Always free 40+ services





# Demo – AI learning journey assessment


- Skilling up is a personal journey
- Start assessment

MICROSOFT ASSESSMENTS

## AI learning journey

Skilling up is a personal journey, and learning AI is no different. Whether you are just at the beginning trying to understand what AI is and how it could be beneficial for you or your organization, getting your organization ready to use it, wanting to use AI embedded in your everyday applications, or looking to build solutions, Microsoft Learn meets you wherever you are i...

[Start Assessment](#)



### Length of assessment

10 minutes



### Format

Multiple choice and multiple response questions.

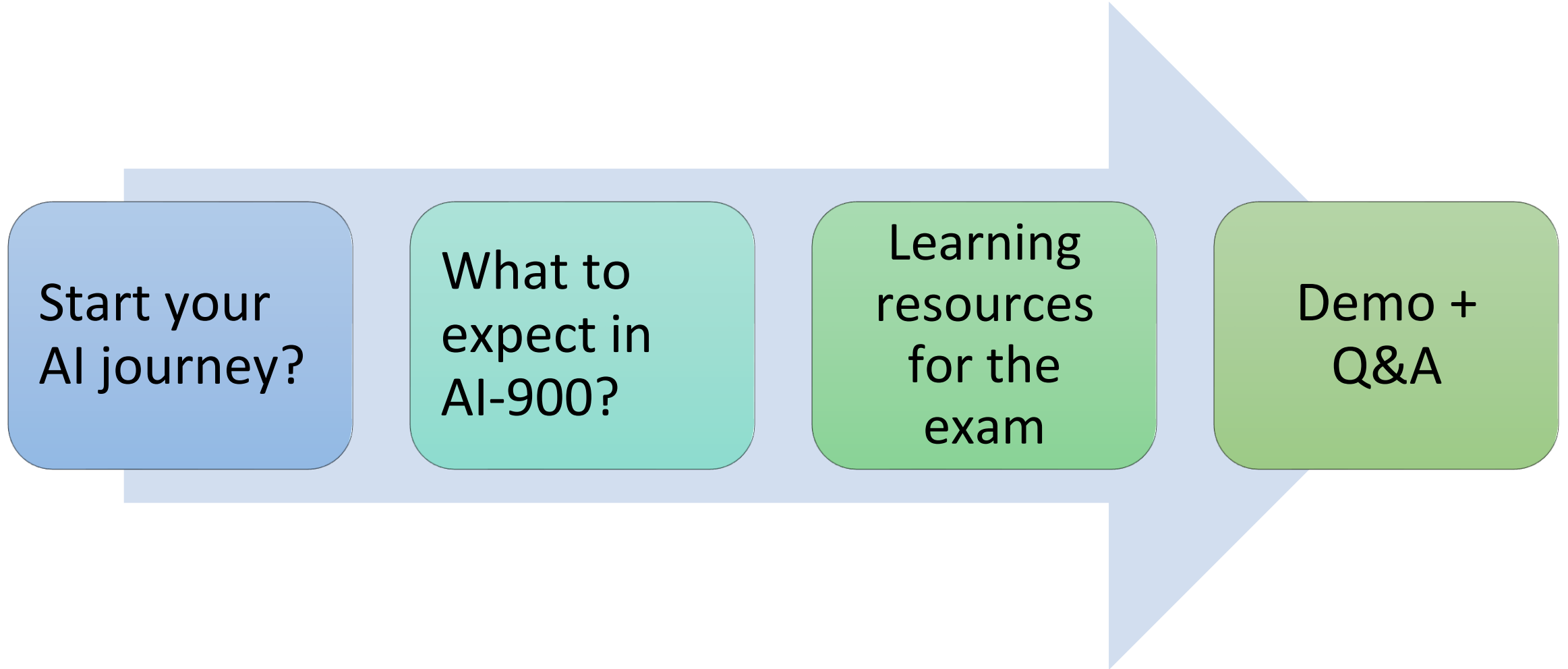


### Results

Receive curated and personalized [guidance](#) that fits your specific scenarios.



# What we covered



# What is next?

MS Learn modules on AI-900

Microsoft AI-900 Exam details



AI learning journey assessment



# Thank you !



<https://gimmecloudtalks.github.io>

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<https://theCloudMarathoner.com> 🌤️ 🏃 🏃