



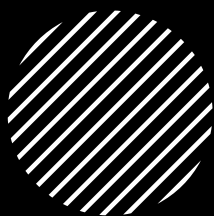
# AI for Dummies

Building AI-powered apps without the data science degree





# Agenda



- Introduction
- AI Overview
- Using AlaaS
- Demo application
- Questions





# Hello from Grand Rapids

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- I'm Victor Frye
- Your friendly neighborhood developer
- Self-proclaimed #1 Clippy fan
- Love the internet and fun
  - [victorfrye.com/blog](https://victorfrye.com/blog)
  - [microsoftgraveyard.com](https://microsoftgraveyard.com)
  - [shrugman.com](https://shrugman.com)
- Found my passion in cloud and DevOps
- DevOps specialist at Leading EDJE
- Cautiously interested in AI automation







# Leading EDJE

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- Technology consultancy and services
  - Strategists, innovators, partners
  - Craft bespoke solutions
  - Positive disruption of the norm
  - Outcome focused
- Real. Fun. Geeks.
- Free lunch and learns
- Expert talent
  - Cloud
  - DevOps
  - Web
  - Agile
  - AI



AI is mainstream now



# AI goes deeper than ChatGPT

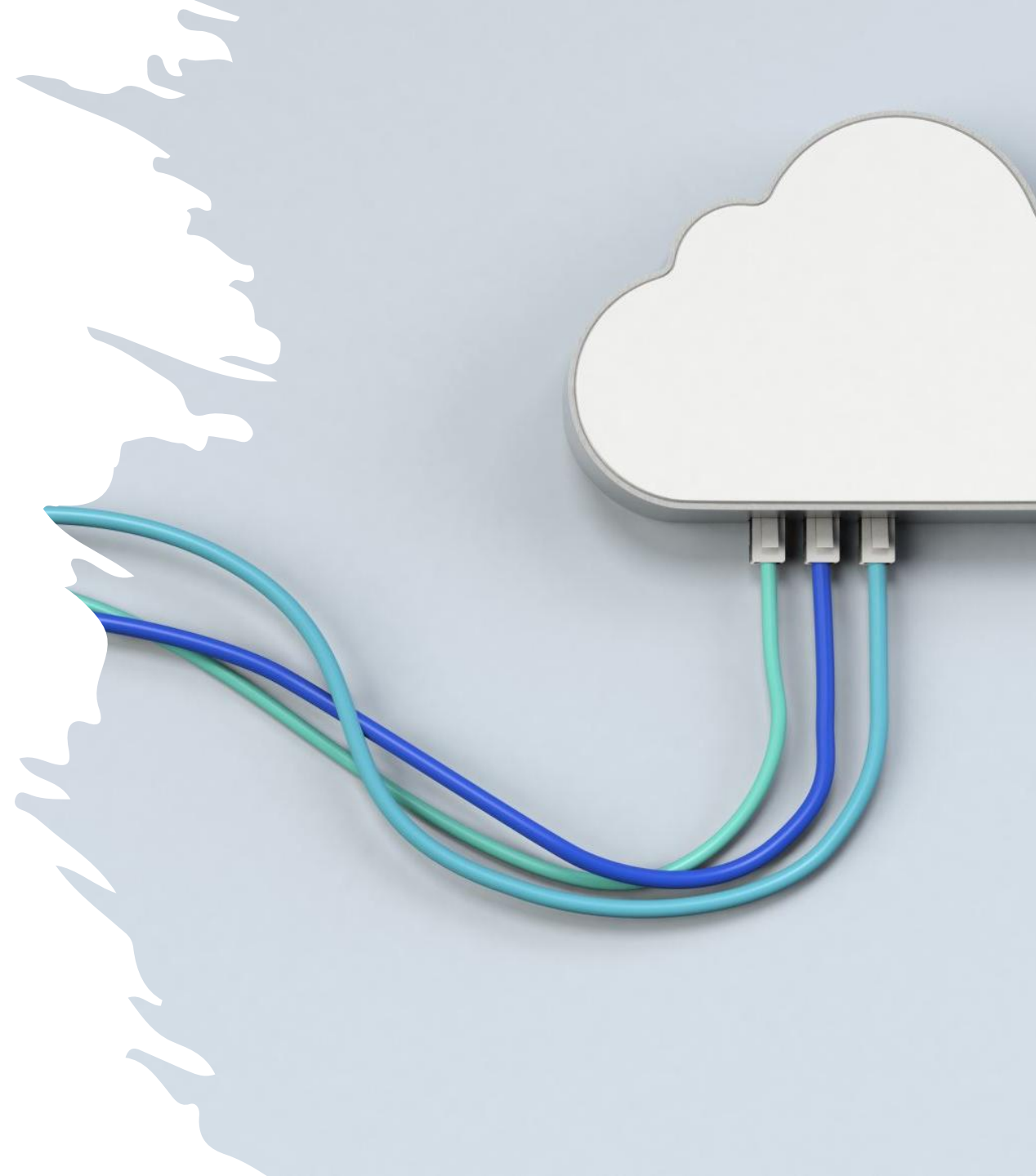
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- Agents
- Copilots
- AI as a Service
- Deep Learning
- Machine Learning



# AI as a Service

- Follows cloud service model (i.e., IaaS, PaaS, SaaS)
- Developers interact through APIs
  - RESTful endpoints
  - SDKs
- Cloud platform manages infrastructure for you
- Choose a cloud provider (e.g., Azure)



# Types of AlaaS



## **Bots**

Chatbots  
Virtual assistants  
Social media bots  
Conversational agents



## **Machine learning frameworks**

Predictive modeling  
Image recognition  
Natural language  
Recommendation systems



## **Cognitive computing APIs**

Image recognition  
Speech synthesis  
Language translation  
Sentiment analysis



## **Data analytics and insights**

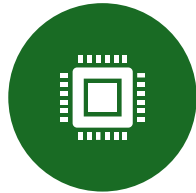
Predictive analytics  
Anomaly detection  
Pattern recognition  
Recommendation engines



# Benefits of AlaaS



COST-EFFECTIVE  
IMPLEMENTATION



ACCESS TO CUTTING-  
EDGE



RAPID DEVELOPMENT  
AND DEPLOYMENT



SCALABILITY AND  
STABILITY



FOCUS ON CORE  
COMPETENCIES



INNOVATE AND  
EXPERIMENT

# Cognitive Computing



## Computer vision

Image classification  
Facial recognition  
Optical character recognition (OCR)



## Natural language processing

Sentiment analysis  
Machine translation  
Speech synthesis



## Document intelligence



## Knowledge mining



## Generative AI

Content generation

# Azure AI Services

OpenAI

AI Search

Computer  
vision

Face API

Custom  
vision

Speech

Language

Translator

Document  
intelligence

Bot

Health  
insights

Anomaly  
detector

Content  
moderator

Content  
safety

Immersive  
reader



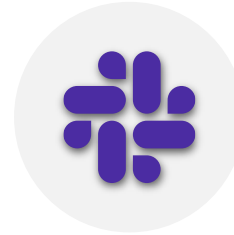
Building with AlaaS



# App idea



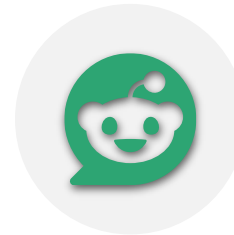
EDJEOVATION DAYS



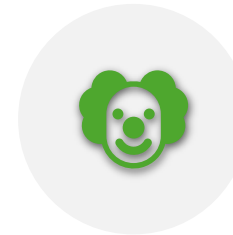
SLACK HUDDLE  
“YOU LOOK GREAT  
TODAY”



MIRROR MIRROR, ON  
THE WALL...

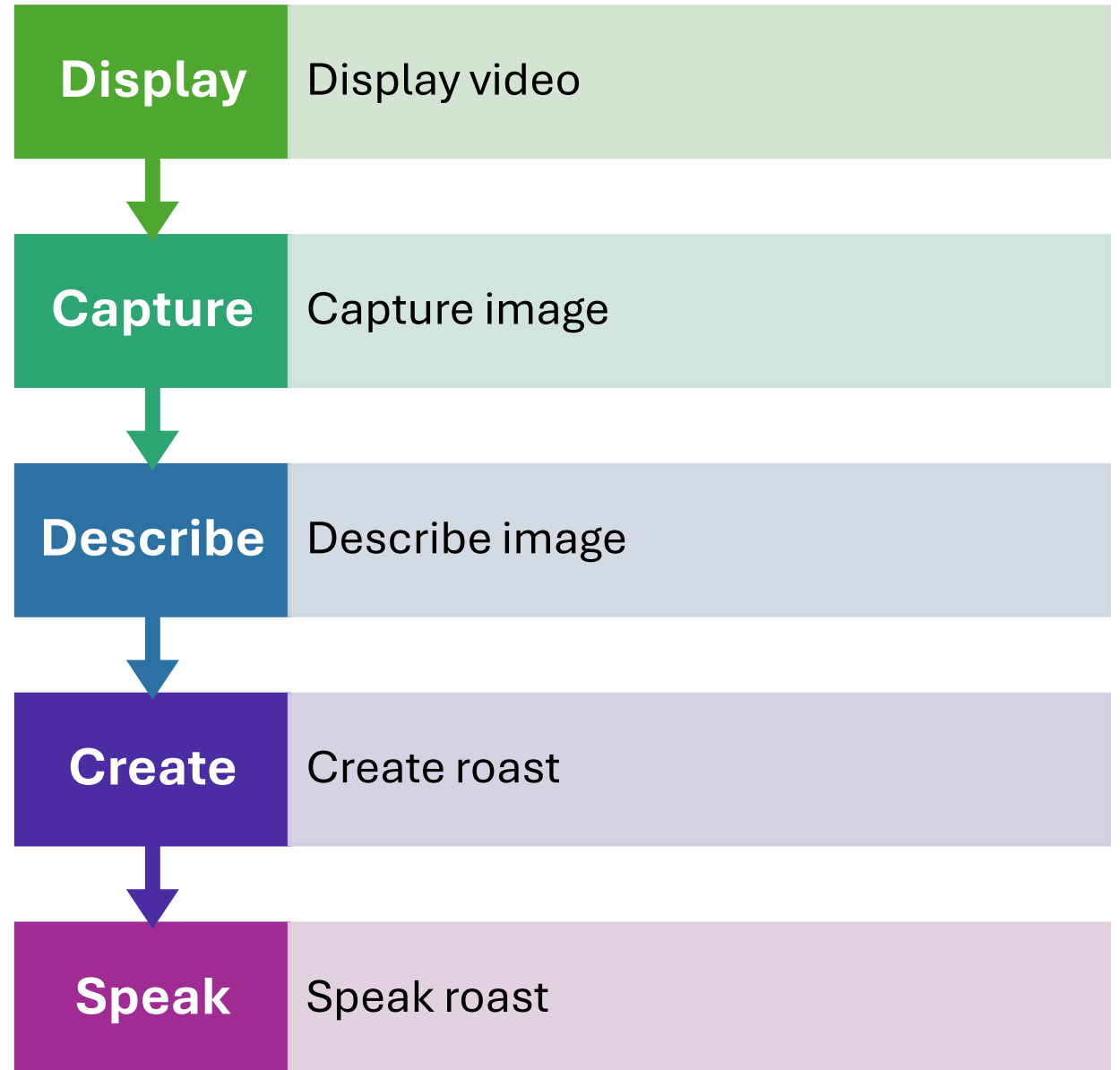


/R/ROASTME



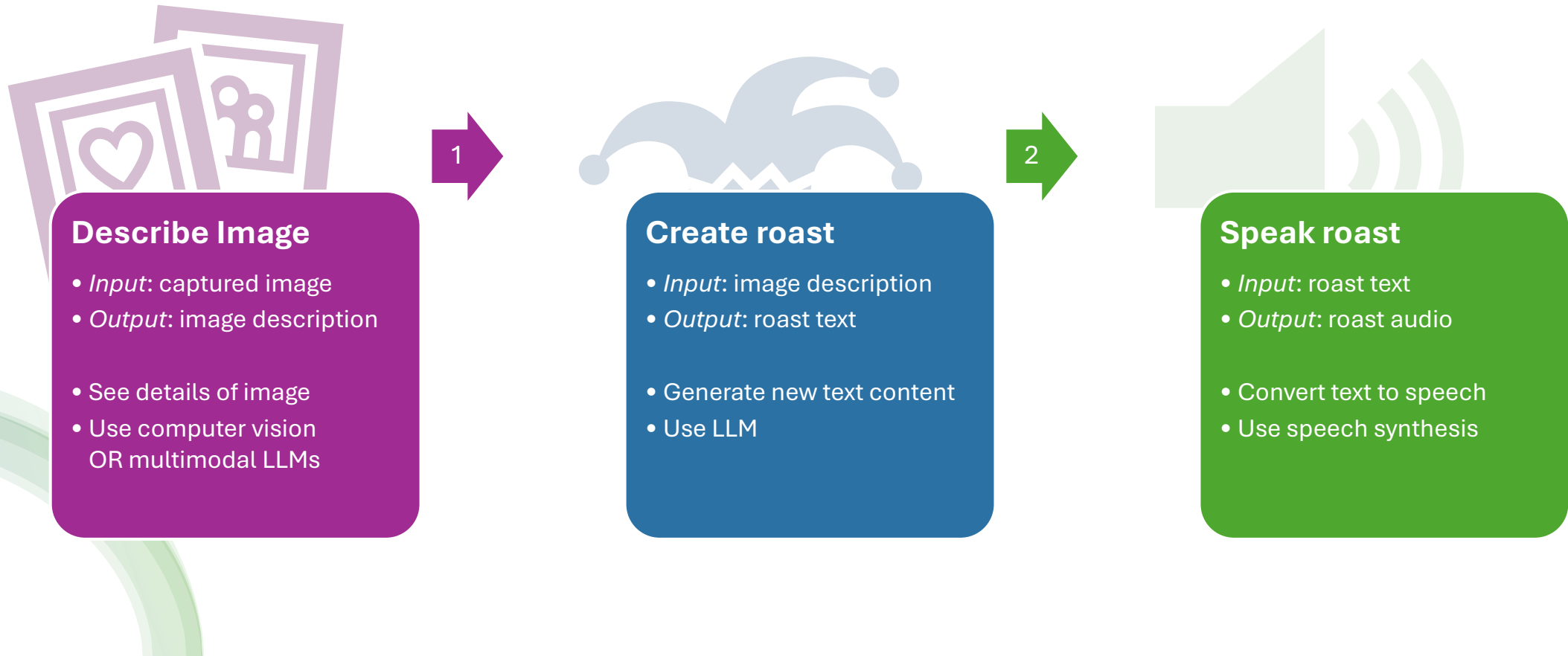
MOCK COWORKERS

# Our app requirements





# The AI elements



# Azure AI Services we will use



Azure OpenAI



Azure AI Speech

The background is black and features several abstract geometric elements. A large circle with a thin white outline and a thick light green inner border is centered on the page. To the left of the circle, there are two horizontal wavy white lines. In the top right corner, there is a small orange circle with a white outline. In the bottom left corner, there is a small solid orange circle. In the bottom right corner, there is a large solid orange circle. To the right of the large circle, there are four parallel white diagonal lines.

# The Mocking Mirror



# The Azure AI Vision problem

A thick, hand-drawn style orange line that spans the width of the title text below it.

Demonstration

# Chat in AI Foundry

A thick, hand-drawn style orange line that spans the width of the title text.

Demonstration

# Ethical AI and content filters

A thick, hand-drawn style orange line that spans across the width of the slide, positioned below the main title.

Demonstration



# aspire run

---

Demonstration

# Get roast completion

---

Demonstration

# Explore Speech Studio voices



Demonstration

# Get roast speech

---

Demonstration

# Trials along the way

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Content filters

---

Region limits

---

Face blurring

---

Platform requirements

---

Multimodal limitations

---

Cost management







## Fairness

AI systems should treat all people fairly



## Reliability and safety

AI systems should perform reliably and safely



## Privacy and security

AI systems should be secure and respect privacy



## Inclusiveness

AI systems should empower everyone and engage people



## Transparency

AI systems should be understandable



## Accountability

People should be accountable for AI systems

# Be Responsible

# Is this even applicable?

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- Self checkout app that greets you and provides a compliment
- Fashion app that comments on outfit with fashion tips





# Innovate & experiment

Start developing with AlaaS and find out

# Thank You to Our Sponsors



+

○

Seems easy, right?



# Thank you

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[github.com/victorfrye/mockmirror](https://github.com/victorfrye/mockmirror)