



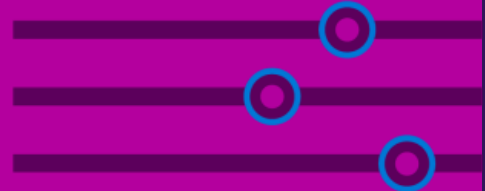
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MICROSOFT AI SERVICES WORKSHOP

Martin Kearn, @MartinKearn





WELCOME BIRMINGHAM



WHY ARE WE HERE?



- ▶ Hands-on learning
- ▶ Microsoft AI Services
- ▶ Get inspired



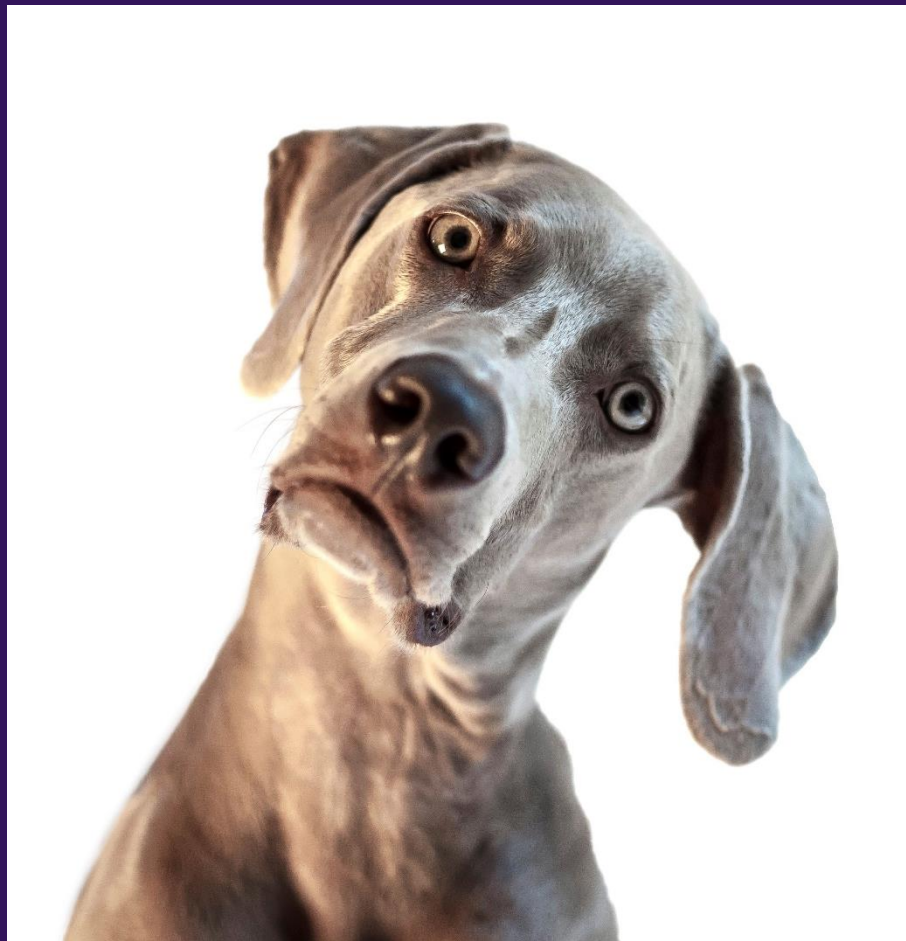
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HOW WILL TODAY WORK?



- ▶ 7 sessions
- ▶ Presentation & demo
- ▶ Guided hands-on labs
- ▶ GitHub





10:15	The Microsoft AI Platform	Martin Kearn
10:45	Computer Vision Services	Frances Tibble
11:30	Break	
11:45	Knowledge Services	Martin Kearn
12:30	Speech Services	Jamie Dalton
13:00	Lunch	
14:00	Language Services	Frances Tibble
14:45	Bots and Conversational Apps	Jamie Dalton
15:30	Break	
15:45	Machine Learning	Mason Cusack
16:45	Wrap-up	Martin Kearn

YOUR TAKEAWAYS



- ▶ What is available
- ▶ How to use it
- ▶ Get inspired



WE WANT TO WORK WITH YOU



- ▶ 3-5 day PoC projects
- ▶ Real-world case studies
- ▶ Free of charge



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AKA.MS/AIWORKSHOPS



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DEMO

GET SETUP

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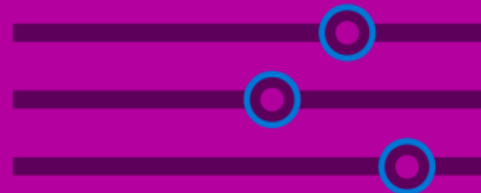


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A stylized rocket ship on the left side of the slide. It has a purple body, a blue nose cone, and blue fins. It is emitting a large, stylized white and blue flame. There are small white stars around the rocket.

THE MICROSOFT AI STORY

Martin Kearn, @MartinKearn

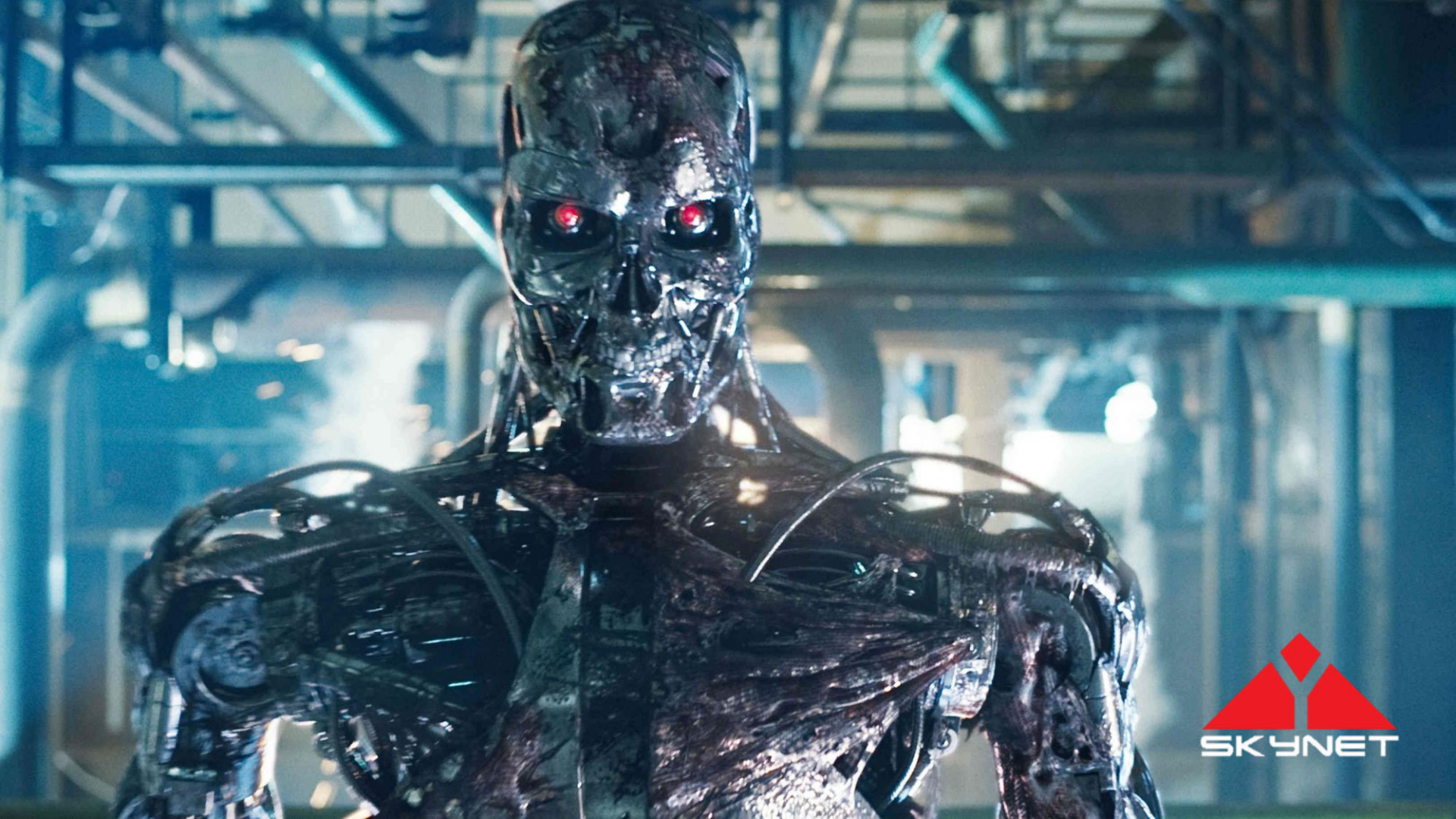


MICROSOFT & ARTIFICIAL INTELLIGENCE?



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IT'S REALLY CLIPPY ON STEROIDS





**HUMANS + MACHINES =
ULTIMATE INTELLIGENCE**

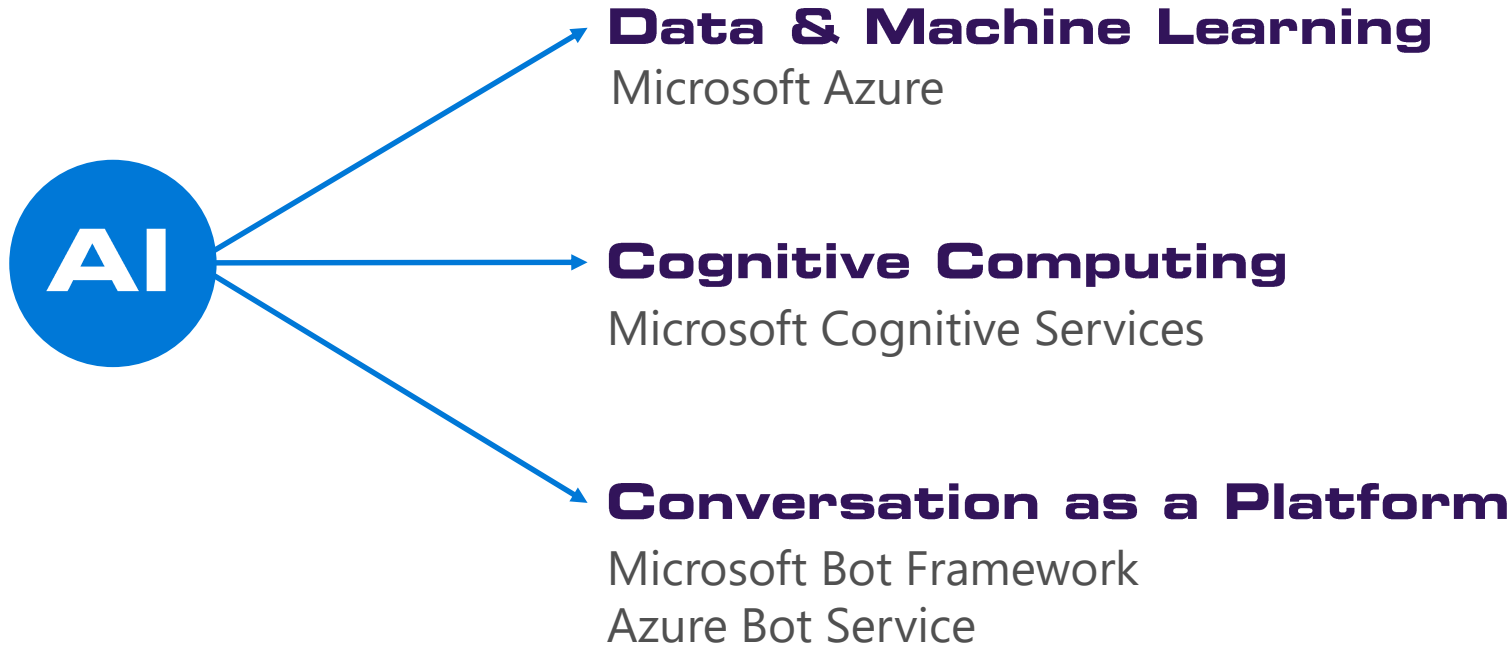


WHAT ARE MICROSOFT'S MACHINES?



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MICROSOFT AI PLATFORM



DATA & MACHINE LEARNING



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**MACHINE LEARNING FINDS
PATTERNS IN DATA
PROVIDES INSIGHTS IN NEW DATA
USING THOSE PATTERNS**



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Credit Card Fraud Detection
Revenue Predictions
Customer Churn
Recommendations
Predictive Maintenance
Computer Vision
Search
Natural Language Processing
Sentiment Analysis
Motion Detection
Translation
Content Moderation

**ANY SCENARIO WHERE
A PATTERN CAN BE
RECOGNISED IN DATA**

USE CASES



**NO DATA?
NO SCIENTISTS?**



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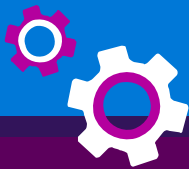
MICROSOFT COGNITIVE SERVICES



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ADD SMARTS TO YOUR APP



- ▶ Machine Learning Backend
- ▶ Simple REST APIs
- ▶ Free or Cheap



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Vision



Language



Speech



Search



Knowledge

Computer vision
Face
Emotion
Content Moderator
Video
Video Indexer

Text analytics
Spell check
Web language model
Linguistic analysis
Translator Text

Translator Speech
Speaker recognition
Bing Speech

Web search
Image search
Video search
News search
Autosuggest
Entity search

Academic knowledge
Entity linking service
Knowledge exploration
Recommendations
QnA maker

Custom
Vision Service

Custom
Language
Understanding

Custom
Speech Service

Custom
Search

Custom
Decision Service

+6 Cognitive Services Labs APIs

30+ APIS













CONVERSATION AS A PLATFORM



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7 OF THE TOP 10 APPS ARE MESSAGING APPS

- | | | | |
|---|---|---|----|
| 1 |  |  | 6 |
| 2 |  |  | 7 |
| 3 |  |  | 8 |
| 4 |  |  | 9 |
| 5 |  |  | 10 |

**LANGUAGE IS
THE NEW UI
BOTS ARE THE
NEW APPS**



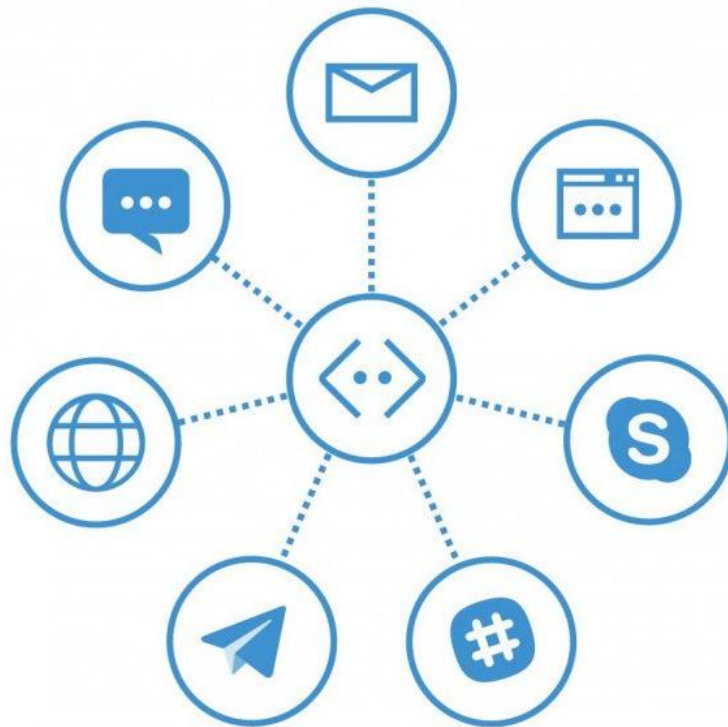
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MICROSOFT BOT FRAMEWORK



- Build one bot
- Host one bot
- Maintain one bot
- Publish to multiple channels



MAKING A DIFFERENCE



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CONTACT ME


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