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summit

AI Builder Jump Start!

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- +5 year of experience Power Platform + Logic Apps

 <https://bit.ly/3xqYE6Z>

 @ahmadn82



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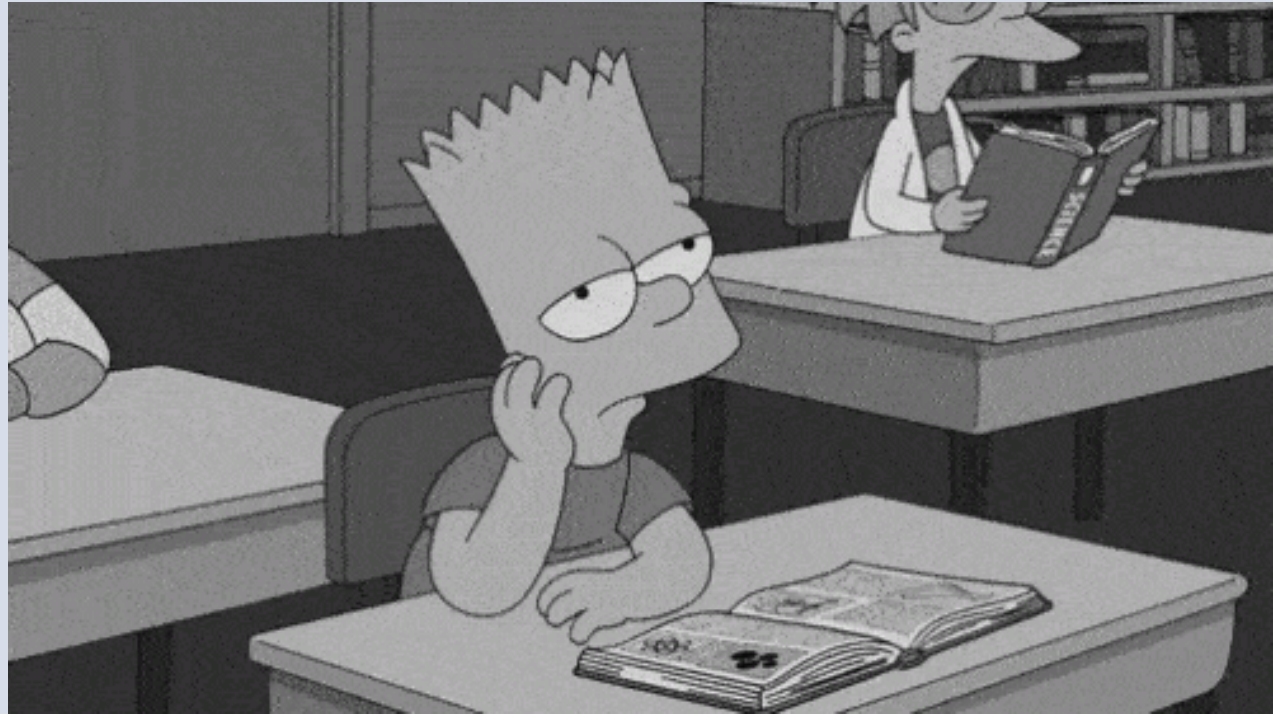


# AI Implementation

Data

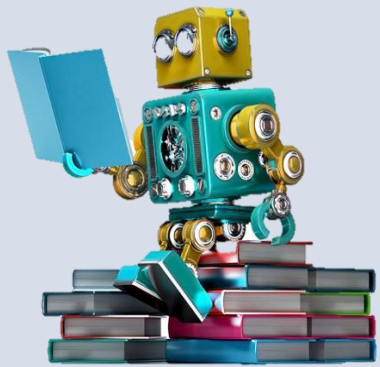
Tool(s)

Important  
(boring)  
concepts

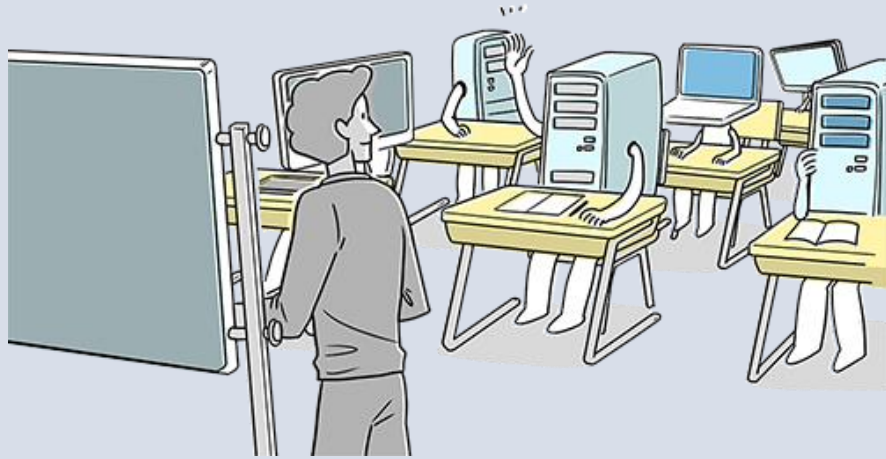


# The difference between AI and machine learning





# What is artificial intelligence (AI)?



# What is machine learning?



**Are AI and ML the same? Are they connected?**

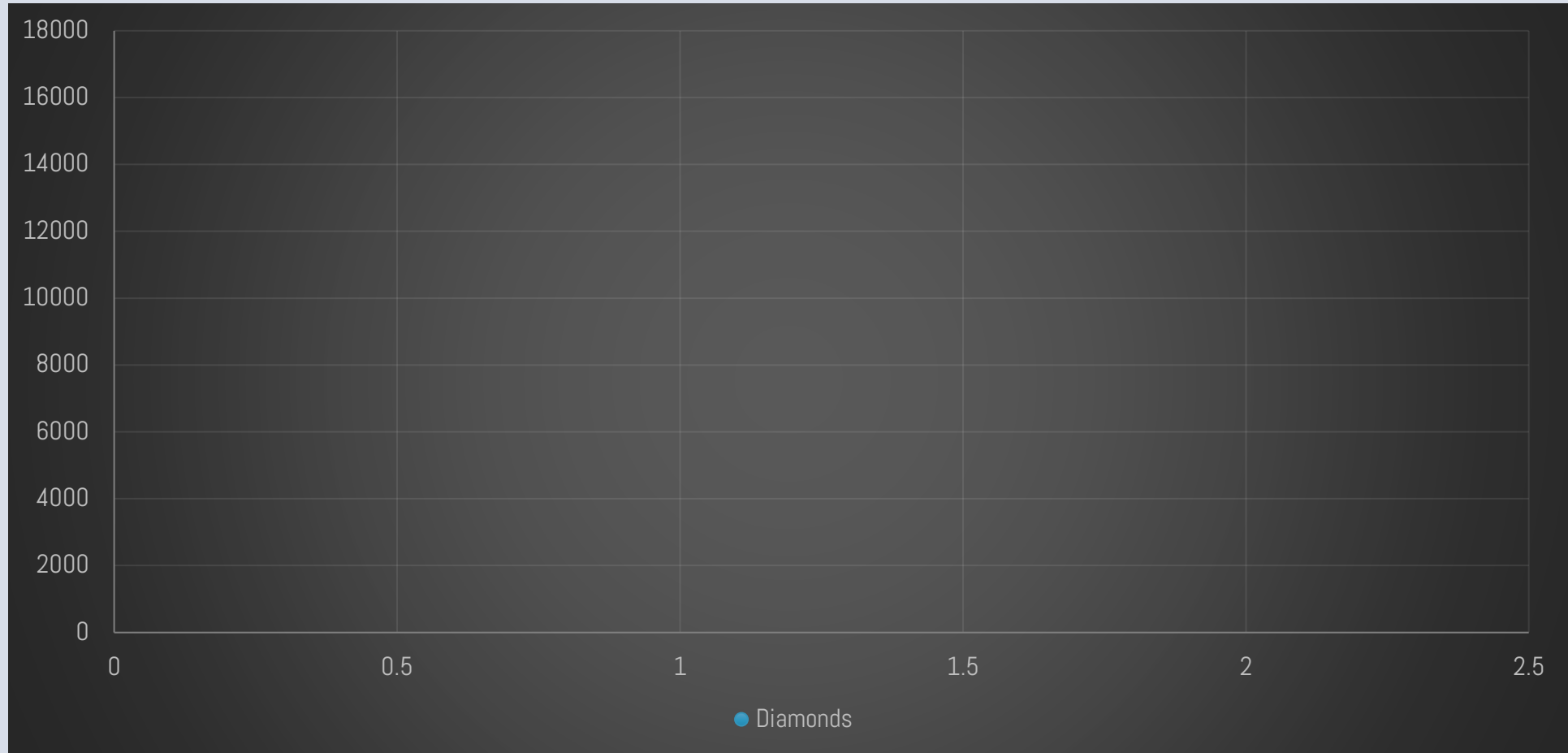
# Data science

# Diamonds dataset

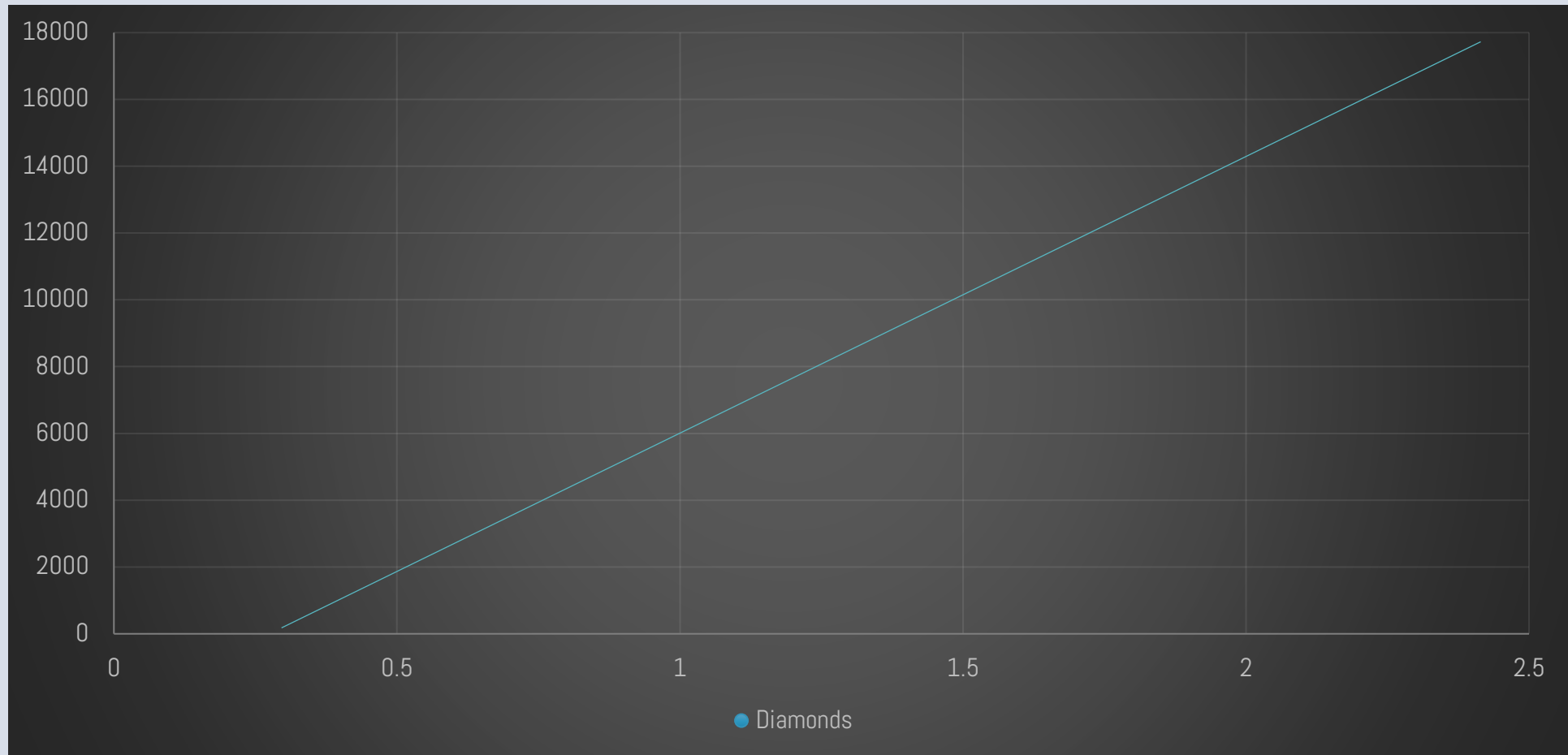
Carats (Weight)	Price (\$)
1.01	7366
0.49	385
0.31	544
1.51	9140
0.37	493
0.73	3011
1.53	11413
0.56	1814
0.41	876
0.74	2690
0.63	1991
0.6	4172
2.06	11764
1.1	4682
1.32	6171
2.02	15996



# Diamonds – Carats vs price



# Diamonds – Carats vs price



# Data quality

## Irrelevant Data

Reg. #	Block M2	Price
521458	15245	150000
658241	180235	500000
652145	68007	3000000

## Disconnected Data

M2	Post Code	Price
<input type="text"/>	82	2600000
200	<input type="text"/>	3800000
<input type="text"/>	84	11000000

## Relevant Data

M2	Post Code	Price
80	0674	2600000
200	0764	3800000
350	0684	11000000

## Connected Data

M2	Post Code	Price
80	0674	2600000
200	0764	3800000
350	0684	11000000



Not Enough Data

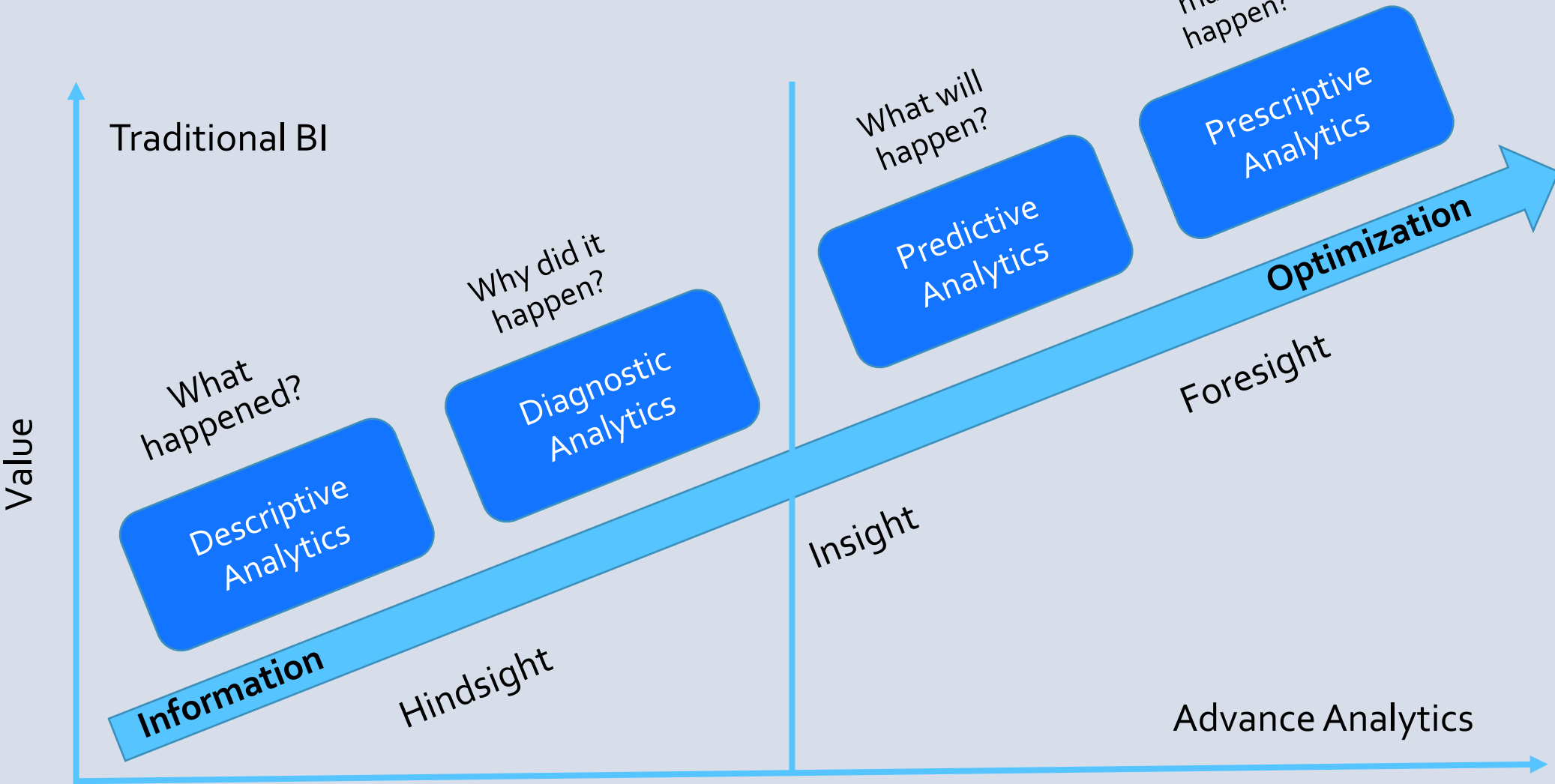
# Barely Enough Data



# Enough Data



# Data analytics model





**Implementation  
Complexity**



**Business  
Expertise**



**Talent  
Shortage**

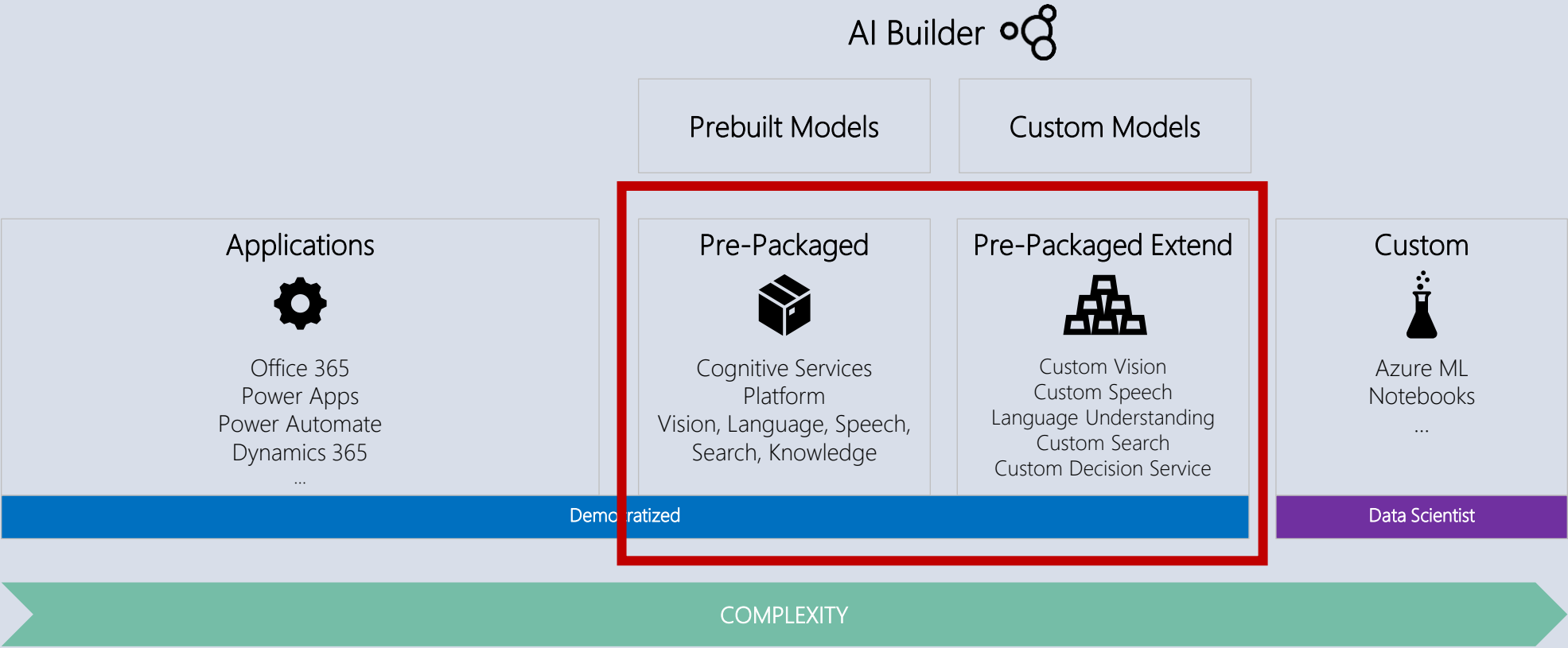
Wouldn't it be great if AI got democratized,  
making it easier to implement?!

# AI Implementation

Data

Tool(s)

# AI Landscape







# Microsoft Power Platform

The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications

**Innovation anywhere. Unlocks value everywhere.**



**Power BI**

Business analytics



**Power Apps**

Application development



**Power Automate**

Process automation



**Power Virtual Agents**

Intelligent virtual agents



**Power Pages**

External facing websites



**Power FX**



**AI Builder**



**Dataverse**

# Point-and-Click AI solutions

Add intelligence to your business

Try out AI capabilities for each data type



All



Documents



Text



Structured data



Images



Invoice processing  
Extract information from invoices



Text recognition  
Extract all the text in photos and PDF documents (OCR)



Receipt processing  
Extract information from receipts



Identity document reader  
Extract information from identity documents



Business card reader  
Extract information from business cards



Custom model

Form processing  
Extract custom information from documents



Sentiment analysis  
Detect positive, negative, or neutral sentiment in text data



Preview

Category classification  
Classify customer feedback into predefined categories



Entity extraction  
Extract key elements from text, and classifies them into predefined categories



Key phrase extraction  
Extract most relevant words and phrases from text



Language detection  
Detect the predominant language of a text document



Text translation  
Detect and translate more than 90 supported languages



Custom model

Category classification  
Classify texts into custom categories



Custom model

Entity extraction  
Extract custom entities from your text



Custom model

Prediction  
Predict future outcomes from historical data



Custom model

Object detection  
Detect custom objects in images



Custom model

Lobe

Image classification  
Classify your images based on their content (powered by Lobe)

# Point-and-Click AI solutions

## Add intelligence to your business

Power Apps | AI Builder

Environment  
Tech-Carpenter (Upgra...)

Enhance your business with AI

Add intelligence to your business. Create tailored AI models to automate processes and find insights. [Learn more](#)

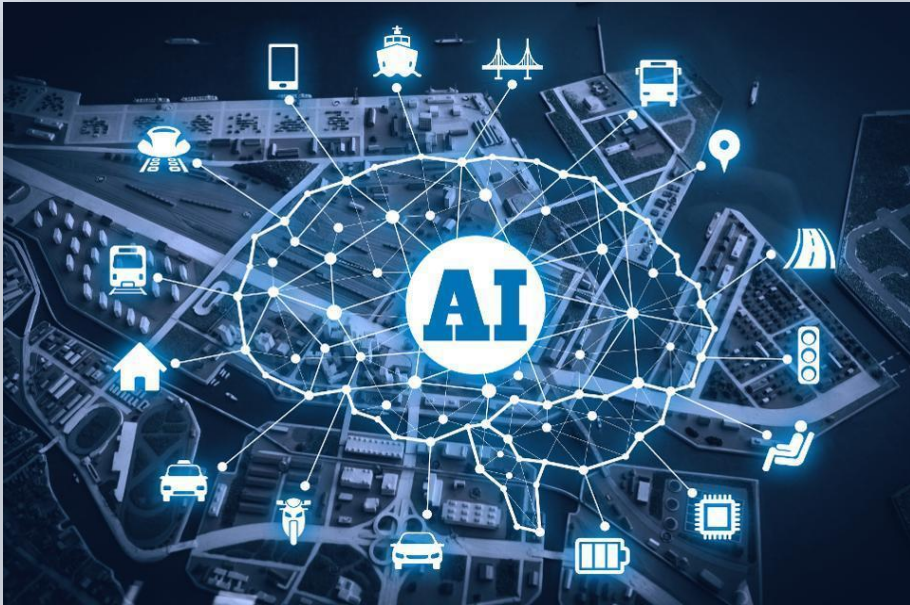
Refine a model for your business needs

- Category Classification**  
Categorize text by its meaning so it's easier to analyze.
- Entity Extraction**  
Recognize specific information about your business from data.
- Form Processing**  
Read and save information from standard documents.
- Object Detection**  
Recognize and count things in images.
- Prediction**  
Predict whether something will happen.

Get straight to productivity

- Business Card Reader**  
Automatically process business card information
- Category Classification (preview)**  
Categorize text by its meaning so it's easier to analyze
- Entity Extraction**  
Extract entities and their types from text
- Identity Document Reader**  
Read and save information from identity documents
- Invoice Processing**  
Read and save information from invoices
- Key Phrase Extraction**  
Extract the key talking points from text
- Language Detection**  
Identify the language being used in text
- Receipt Processing**  
Read and save information from receipts
- Sentiment Analysis**  
Analyze positive/negative sentiment in text
- Text Recognition**  
Automatically process text from images
- Text Translation**  
Translate text into a new language automatically

# AI builder model types



## Custom AI Models

Custom AI models are models that you build by choosing a model type in AI Builder, and then training the model to do a specific AI task by using your data



## Prebuilt AI Models

AI Builder features prebuilt AI models that you can use in Power Apps and Power Automate. With a prebuilt model, you get an AI model that Microsoft has built and trained to do a specific task.

# Custom ai models

<b>AI model type</b>	<b>Category</b>	<b>Start here</b>
Prediction	Prediction	<a href="#">Overview of the prediction model</a>
Category classification	Language	<a href="#">Overview of the category classification custom model</a>
Entity extraction	Language	<a href="#">Overview of the entity extraction custom model</a>
Object detection	Vision	<a href="#">Overview of the object detection model</a>
Form processing	Vision	<a href="#">Overview of the form-processing model</a>

# Prebuilt ai models



## Business Card Reader

Automatically process business card information



## Category Classification (preview)

Categorize text by its meaning so it's easier to analyze



## Entity Extraction

Extract entities and their types from text



## Identity Document Reader

Read and save information from identity documents



## Invoice Processing

Read and save information from invoices



## Key Phrase Extraction

Extract the key talking points from text



## Language Detection

Identify the language being used in text



## Receipt Processing

Read and save information from receipts



## Sentiment Analysis

Analyze positive/negative sentiment in text



## Text Recognition

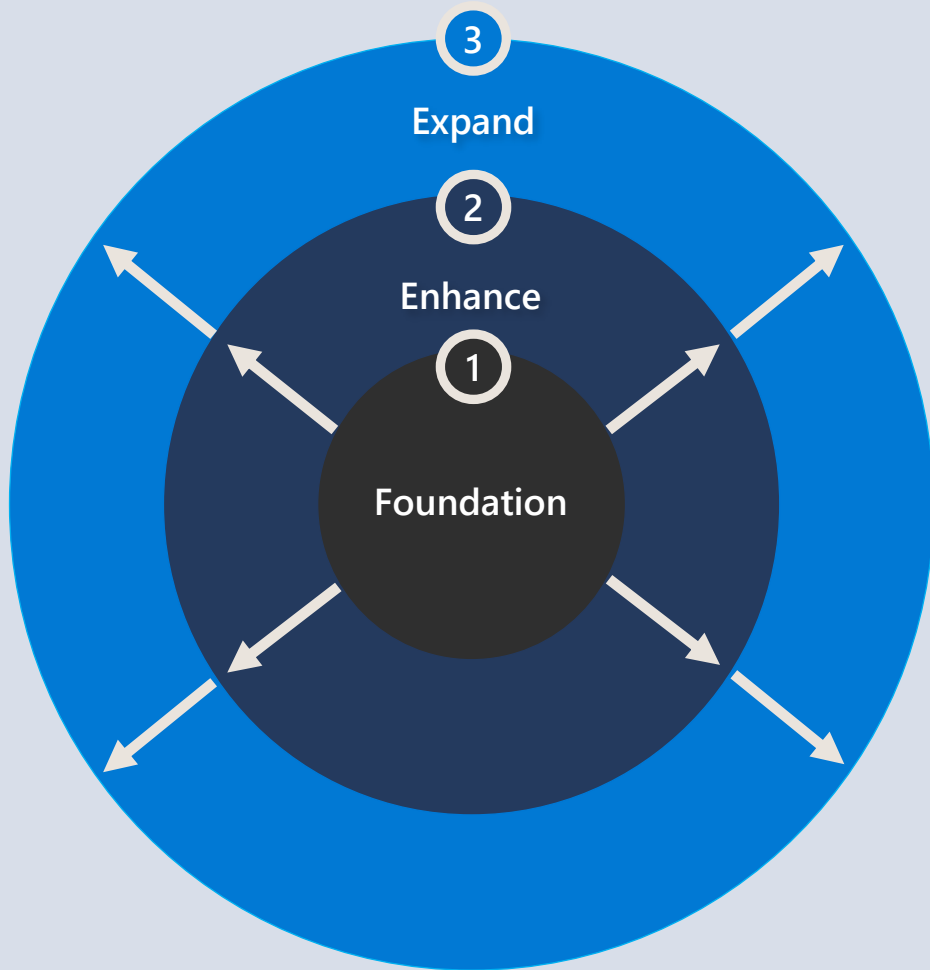
Automatically process text from images



## Text Translation

Translate text into a new language automatically

# Scaling your business applications

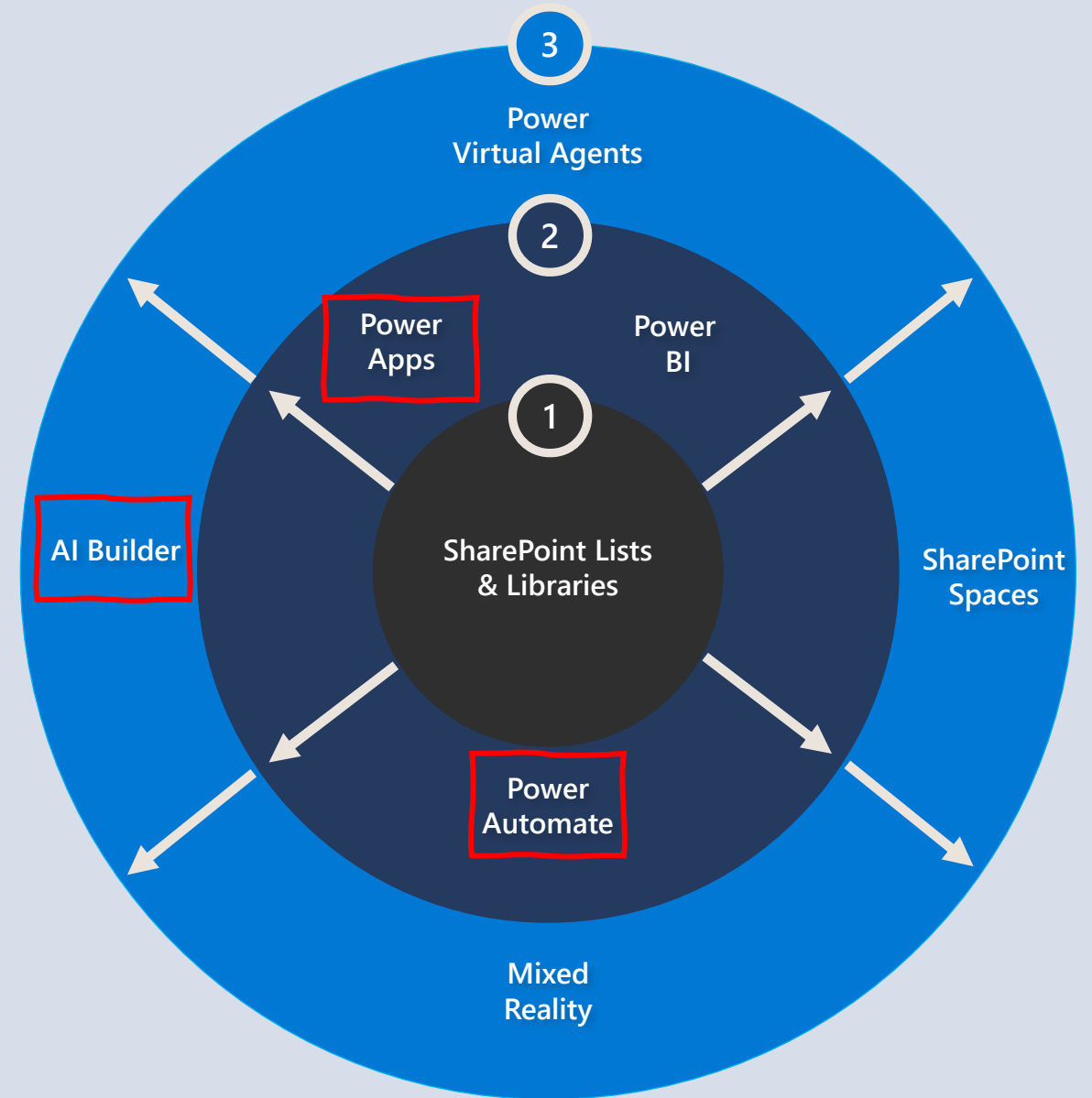


**1** Strong foundation

**2** Enhance and enrich

**3** Expand and scale

# Scaling your business applications

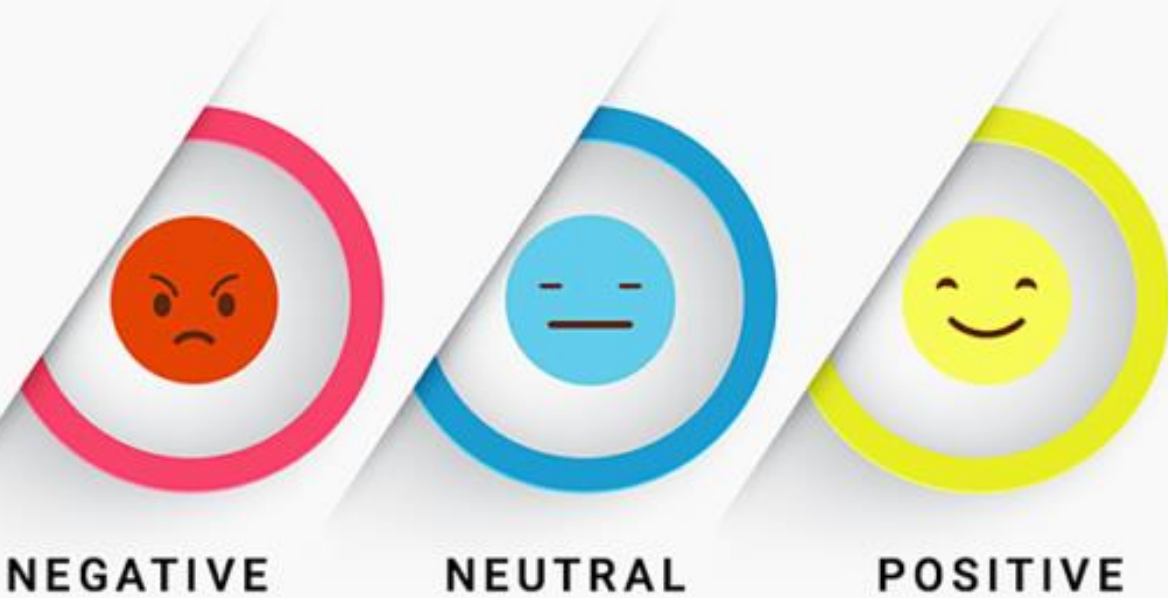




Lots of demos 😊

# SENTIMENT ANALYSIS

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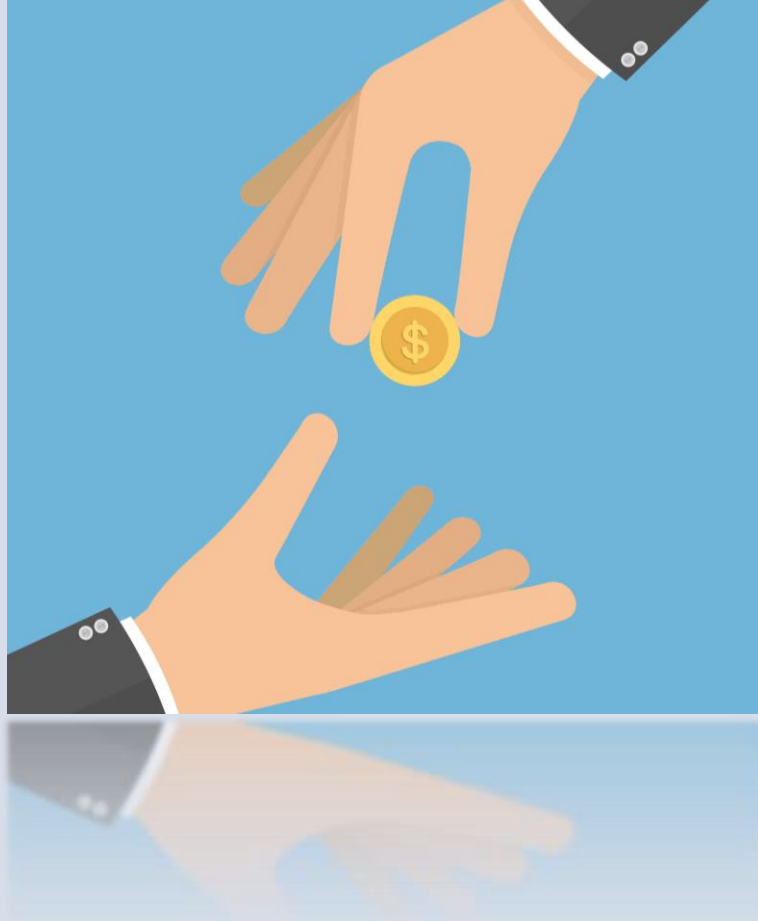
Social Media Sentiments



## Know Your Customer - KYC



# Invoice Processing



## Loan Screening

# Please give me feedback

- Remember to give my session feedback!
- Scan the QR code and find my session in the session list



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