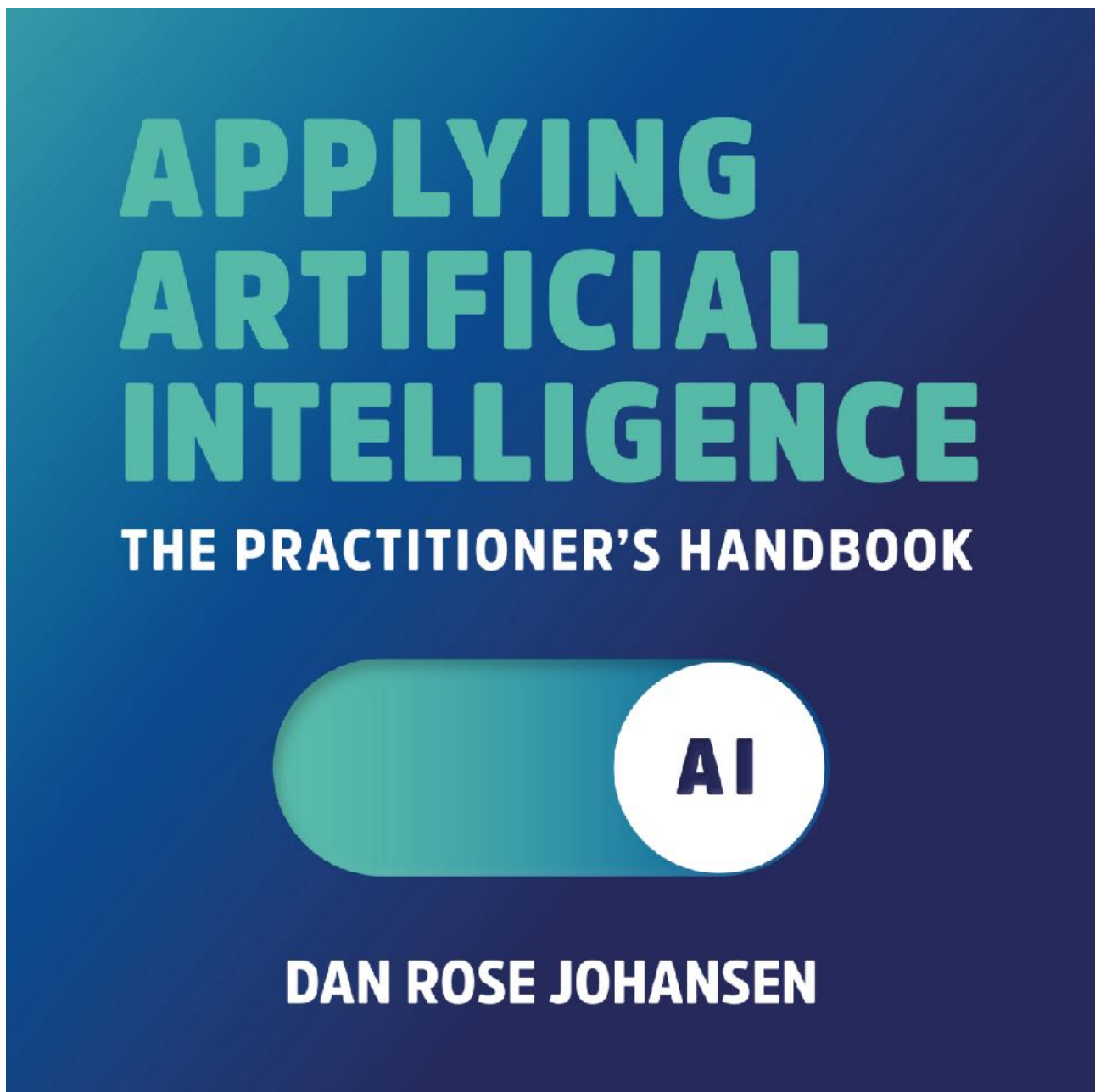


## Labels & Illustrations

The references apply to tracks and chapters in the audiobook and pages in the printed version.



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# Track 3- Introduction

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## IMAGENET: TRAINING COST (to 93% ACCURACY)

Source: DAWNbench, 2020 | Chart: 2021 AI Index Report

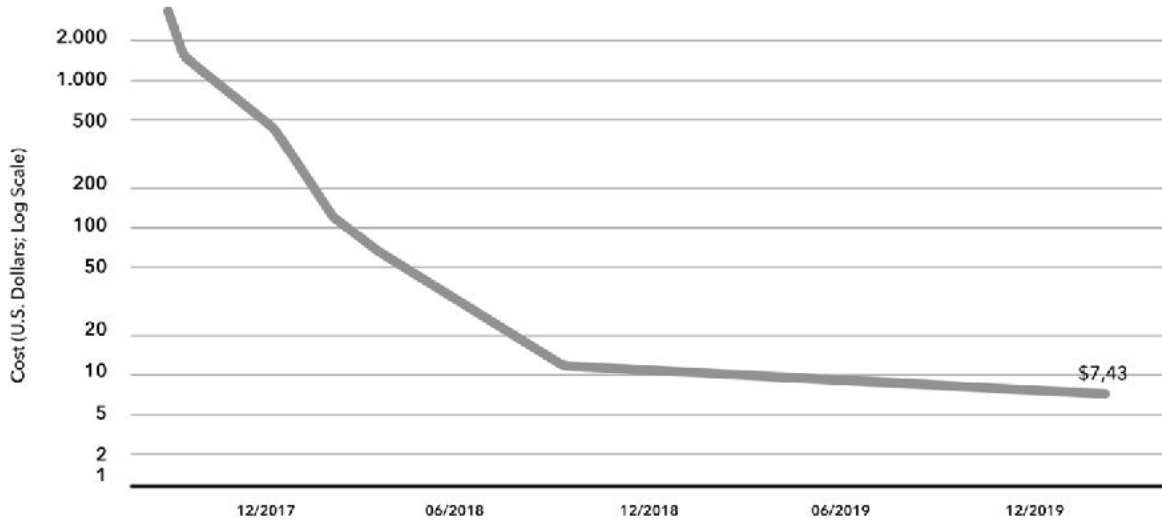


Figure 1: The cost of training an AI-model to 93% accuracy

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## IMAGENET CHALLENGE: TOP-5 ACCURACY

Source: Papers with Code, 2020; AI Index, 2021 | Chart: 2021 AI Index Report

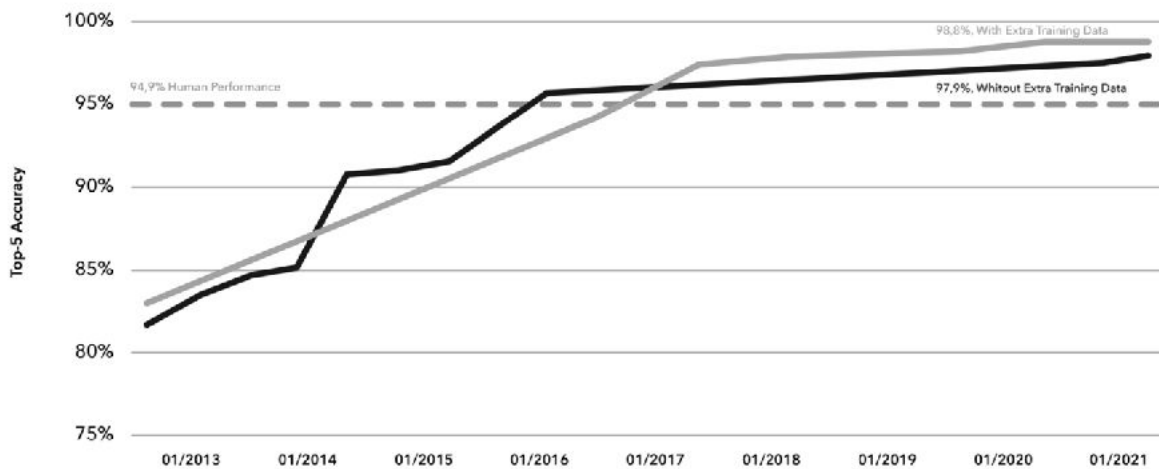


Figure 2: ImageNet challenge: top-5 accuracy

## Track 5 - Chapter 2

Page 18

Label	Features			
Price	Postcode	Number of rooms	m2	Year built
€250k	2000	3	190	1990
€140k	2200	4	140	1960
€350k	2900	3	230	1930

Table 1: Labelling

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Features			
Postcode	Number of rooms	m2	Year built
2000	yellow	190	1990
2200	red	140	1960
2900	White	230	1930

Table 2: Features

## Track 6 - Chapter 3

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Table	Vision	Language	Sound
Classification	classification	classification	classification
Regression	object detection	named entity recognition	audio generation
Forecasting	segmentation	intent analysis	
		sentiment analysis	
		writing text	
		text summarisation	

Table 3: Building blocks

Page 29

Label	Amount	Card owner ID	Transaction time	Merchant ID
fraud	53	8473682	5 Nov 2021 08.40	43868504
not_fraud	60	9484727	5 Nov 2021 10.31	21337316
not_fraud	200	9583734	5 Nov 2021 12.29	81532386

Table 4: Classification

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Amount	Card owner ID	Transaction time	Merchant ID
140	8473682	8 Nov 2021 07.26	82217758

Table 5: Data query

Label	Features			
Price	Postcode	Number of rooms	m <sup>2</sup>	Year built
€250k	2000	yellow	190	1990
€140k	2200	red	140	1960
€350k	2900	white	230	1930

Table 6: Labels and features

Postcode	Number of rooms	m <sup>2</sup>	Year built
2200	4	172	1962

Table 7: Input data

Label	Time series ID	Timestamp	Features			
Ice cream sales	ID	Date	Weather	°C	Store#	Postcode
15	12939	24 Aug 2021	sunny	27	2	1990
24	49282	24 Aug 2021	rain	28	4	1960
18	39482	26 Aug 2021	cloudy	30	2	1930

Table 8: Training data

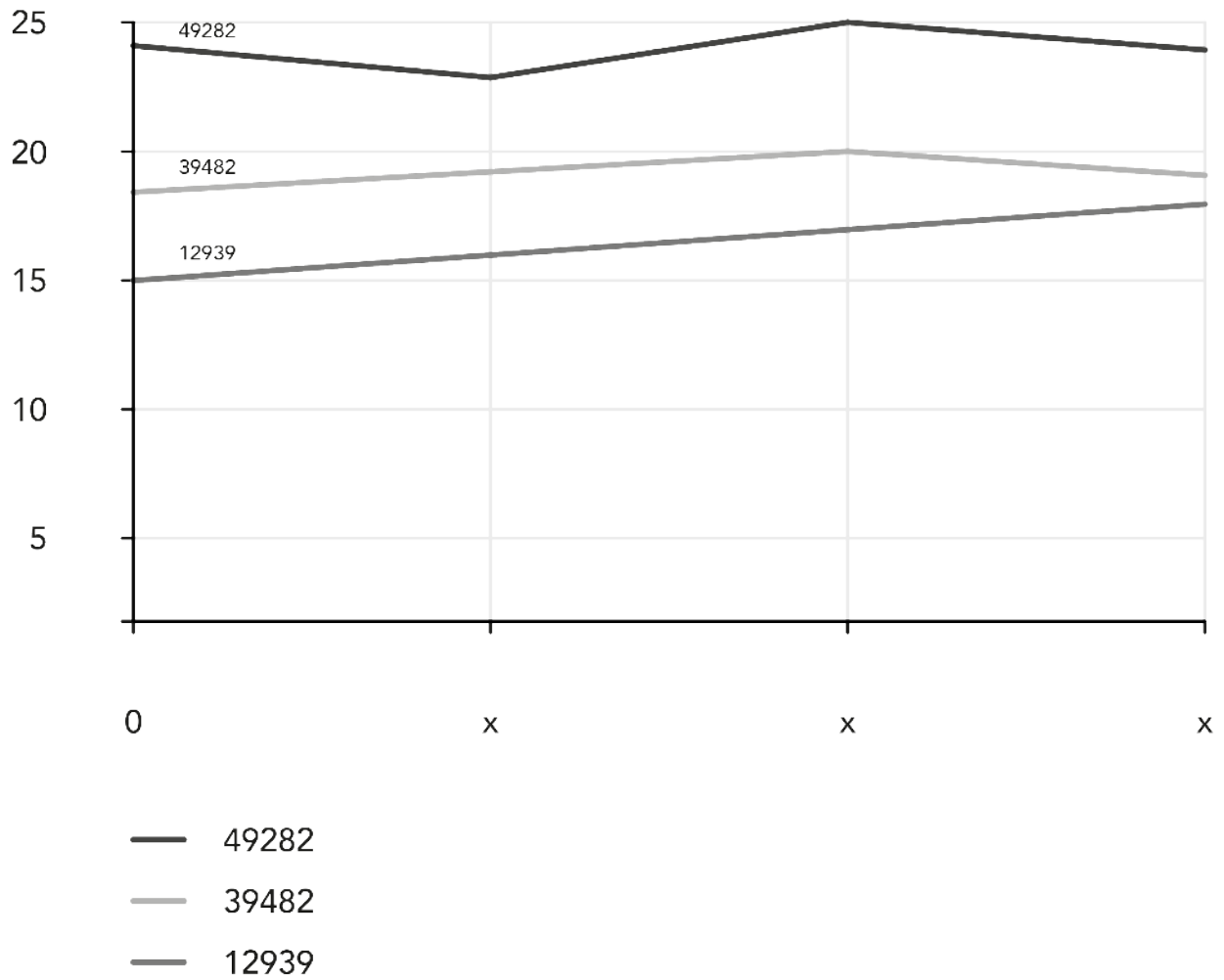


Figure 3: Forecasting sales

Label	Timestamp	Features	
Predicted_sales	Date	Weather_forecast	Degrees_forecast
23.34	1 Sept 2021	sunny	27
18.22	2 Sept 2021	sunny	28
15.03	3 Sept 2021	rain	24

Table 9: Forecasting Model

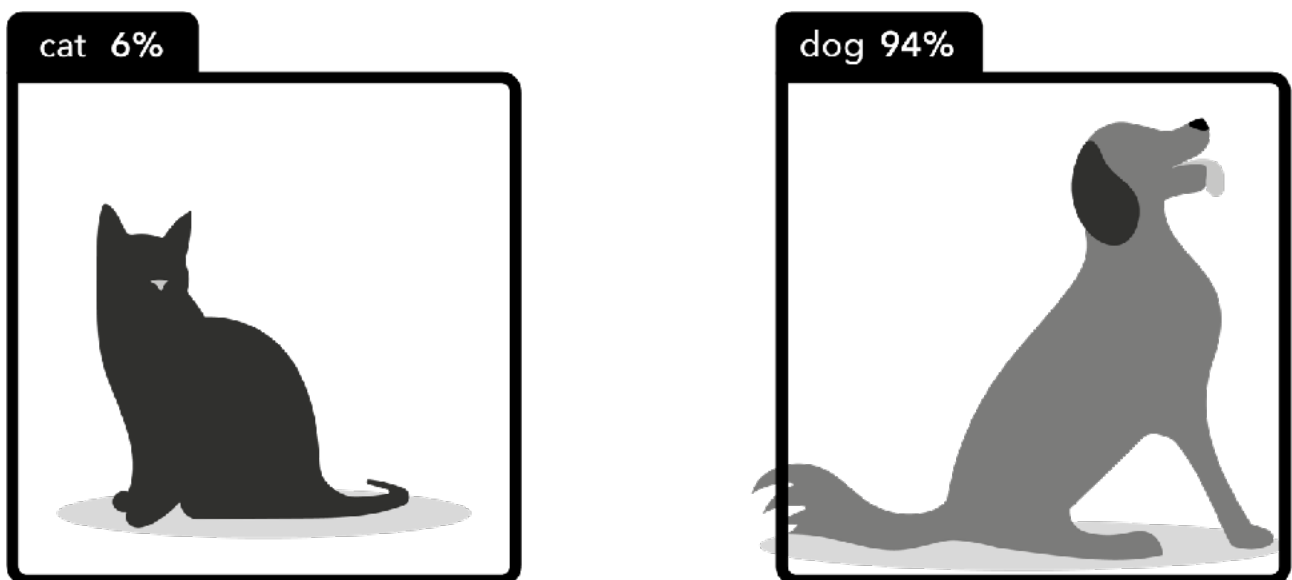


Figure 4: Classifying cats and dogs

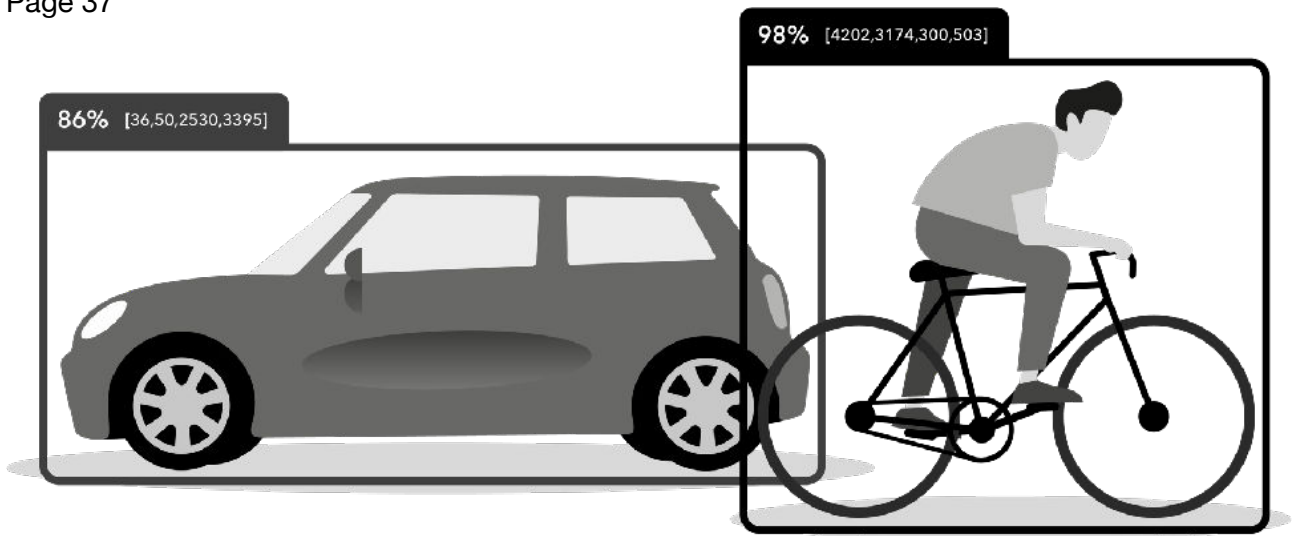


Figure 5: Classifying objects

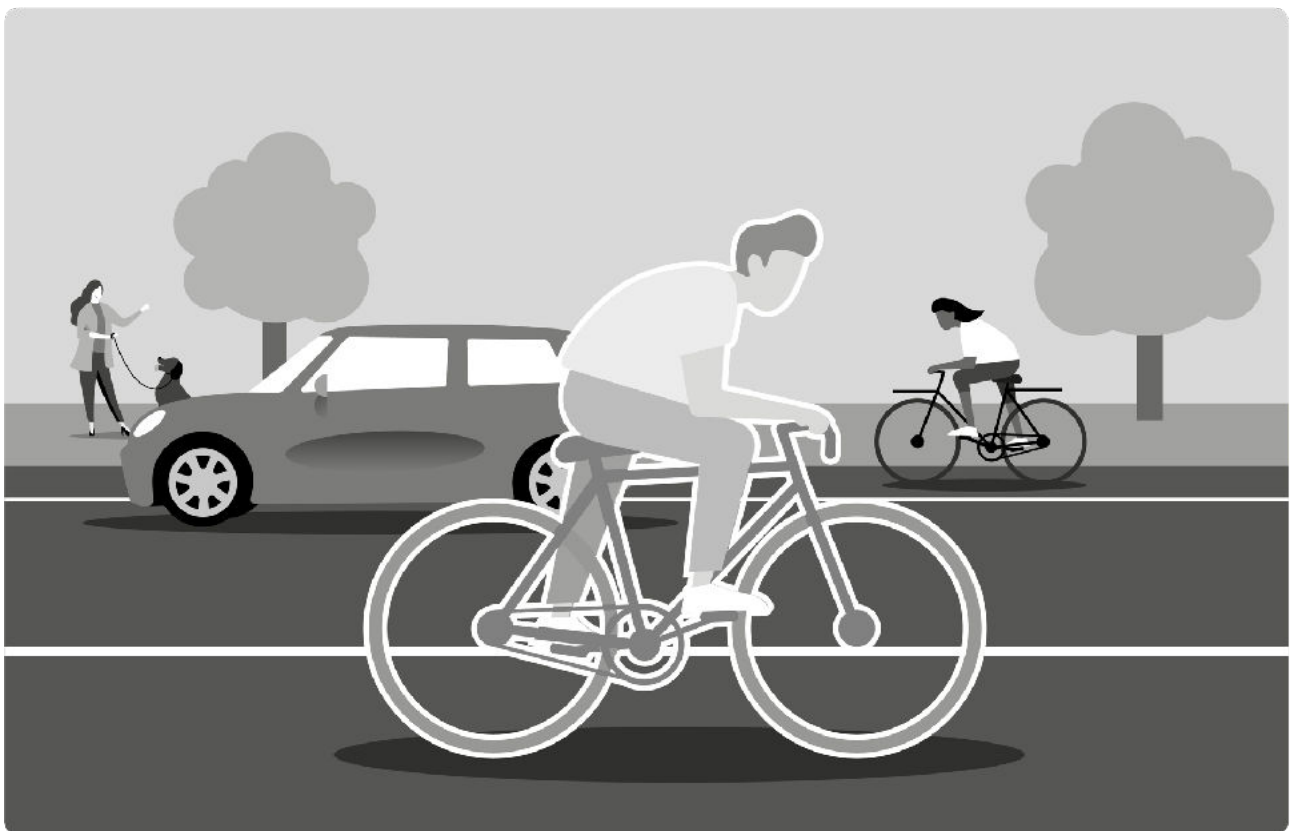


Figure 6: Object outlines



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Label	Text
Support	Hi, can you help me figure out how the product works?
Sales	When can you deliver my order?
Support	I can't remember my login credentials. Can you help me?
Sales	Is the price set in stone or open for negotiation?

Tabel 10: Labelled text data

Page 47

```
import os

# Define the path to folder X
folder_path = 'path/to/folder/X' # Replace 'path/to/folder/X' with the actual path to your folder

# Initialize an empty list to hold the contents of the files
file_contents = []

# Loop through each file in the directory
for filename in os.listdir(folder_path):
    # Construct the full file path
    file_path = os.path.join(folder_path, filename)

    # Check if it is a file
    if os.path.isfile(file_path):
        # Open the file and read its contents
        with open(file_path, 'r') as file:
            content = file.read()
            # Add the content to the list
            file_contents.append(content)

# Now file_contents list contains the contents of all the files in the folder
print(file_contents)
```

Figure 7: Python task script

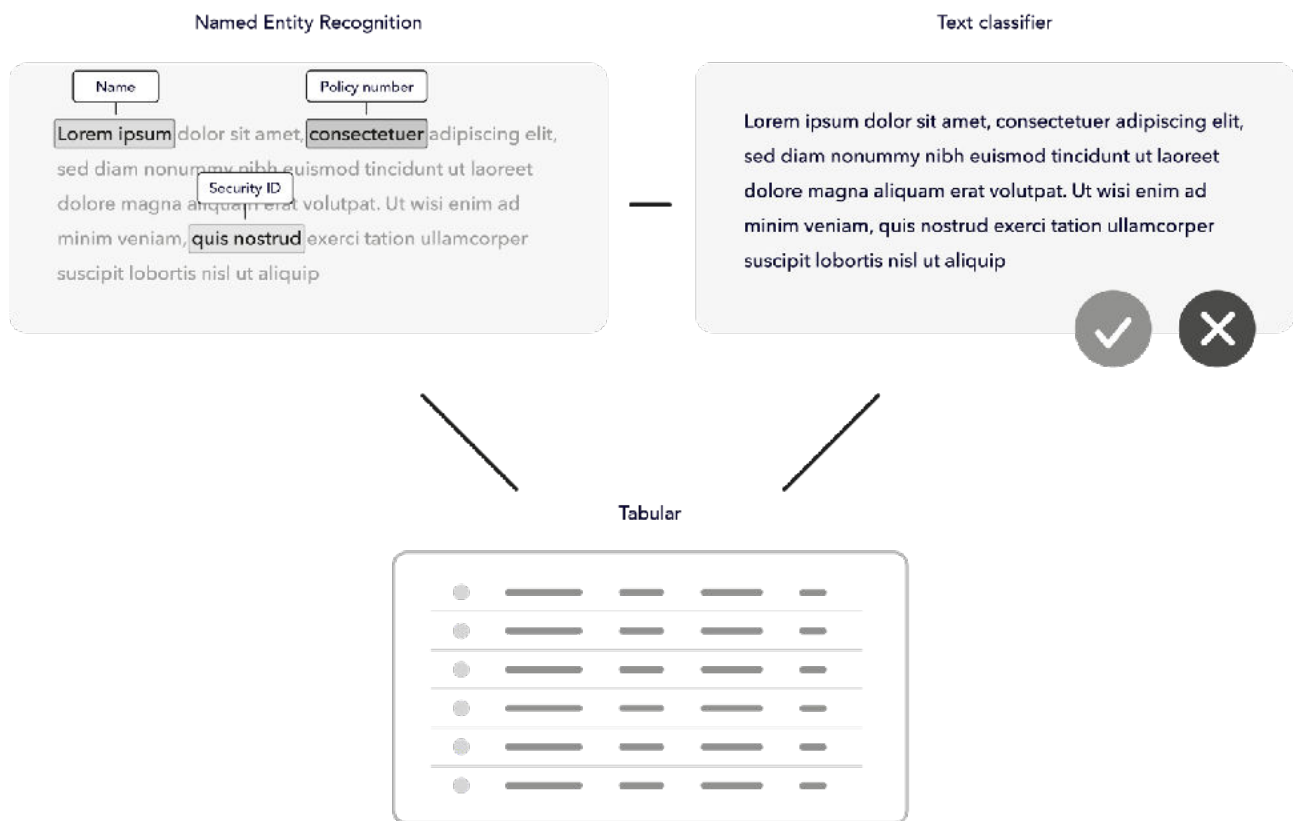


Figure 8: Tabular classification model

## Track 11 - Chapter 8

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Prediction	Confidence	Action
Accept	above 80% and below 95%	send offer
Accept	above 95%	increase price by 10%
Decline	above 90%	stop spending time on offer
Decline	above 50% and below 90%	call client for more information

Table 11: Prediction

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Generation	Confidence	Action
Support email answer (text)	-	A human reviews and sends

Table 12: Decision model

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Prediction	Confidence	Action
email class	above 97%	put email in class folder
all others	below 97%	leave for a human to classify

Table 13: Decision model

Page 128

Prediction	Confidence	Action
yes	above 95%	increase cost by 10%

Prediction	Confidence	Action
150 ice creams or more	above 95% (with a range below +/- 20)	automatically call extra employee
149 ice creams or less	above 95% (with a range below +/- 20)	no action

Table 15: Decision model

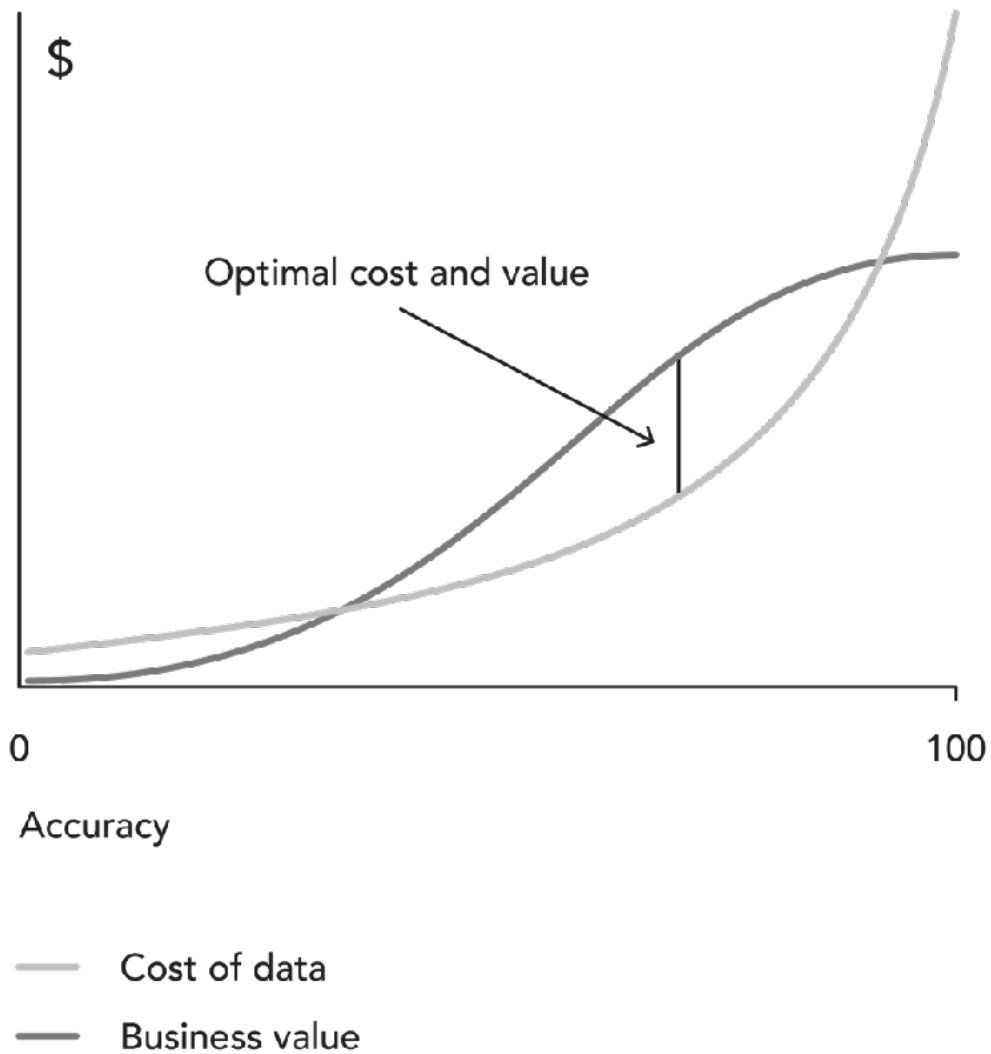


Figure 9: Optimal cost

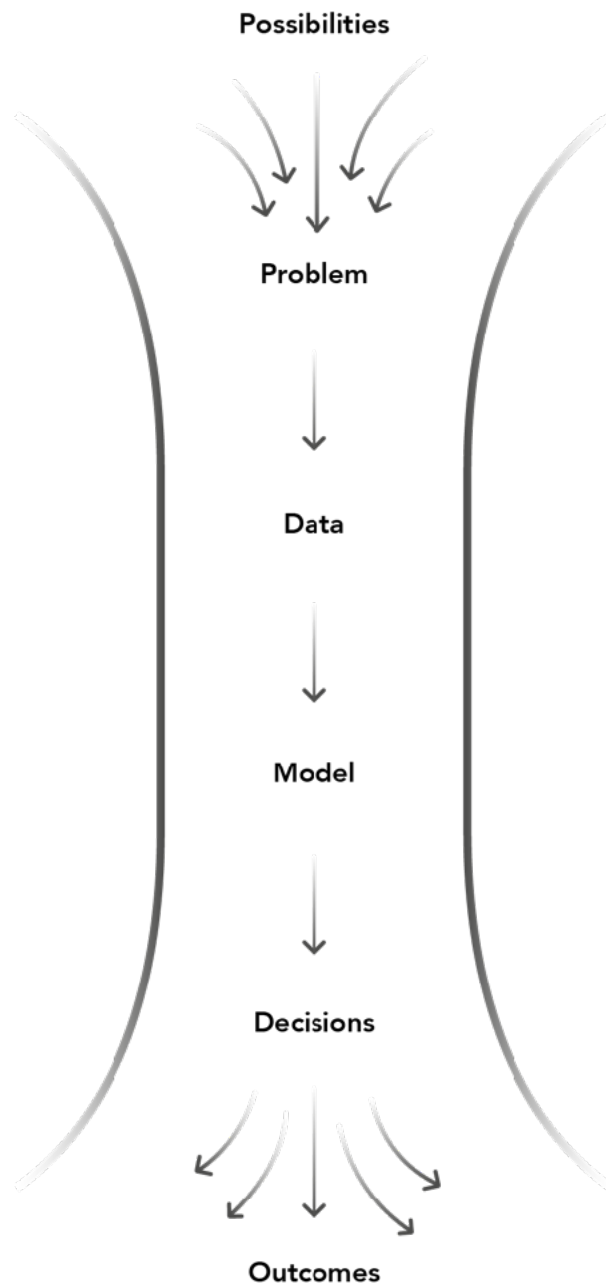


Figure 10: Decision flow

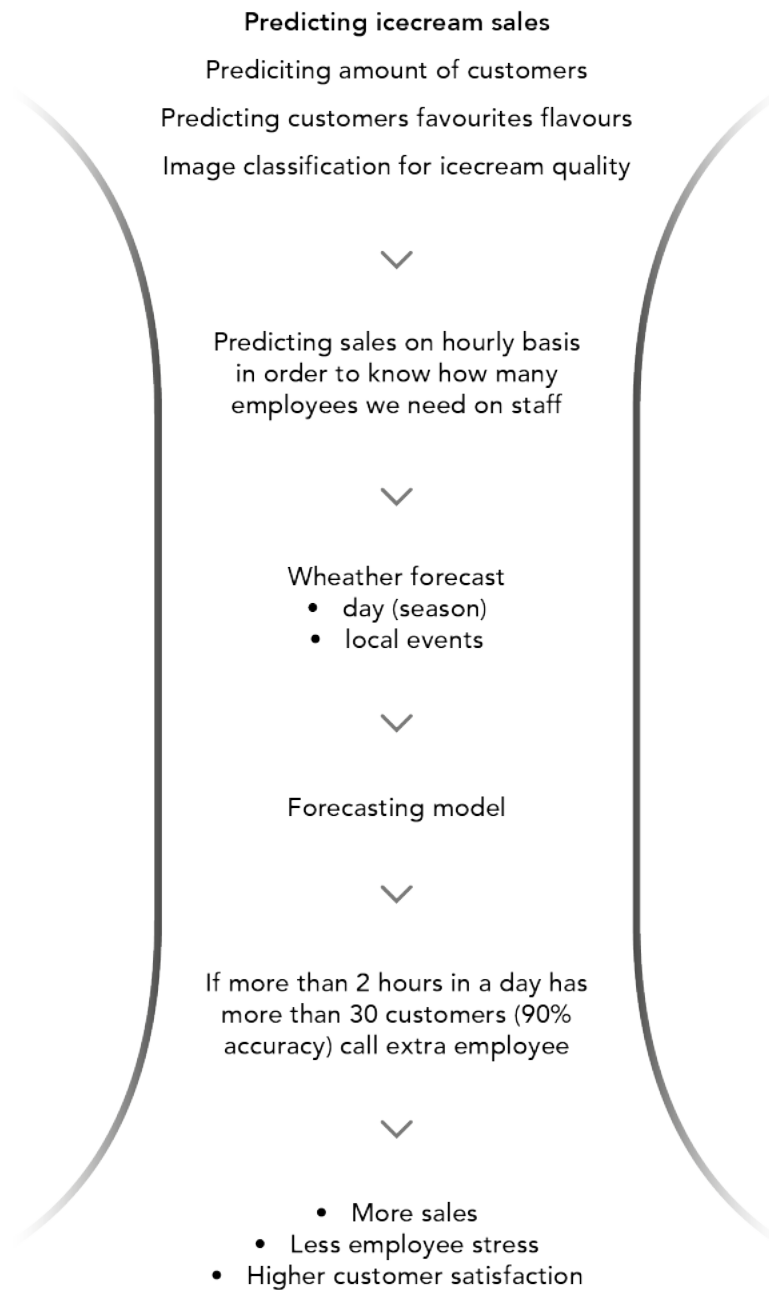


Figure 11: Mapping the decision flow

## Track 12 - Chapter 9

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Price	Postcode	Colour	m <sup>2</sup>	Year built
€250k	2000	Yellow	190	1990
€140k	2200	Red	140	1960
€350k	2900	White	230	1930

Table 16: Data quality

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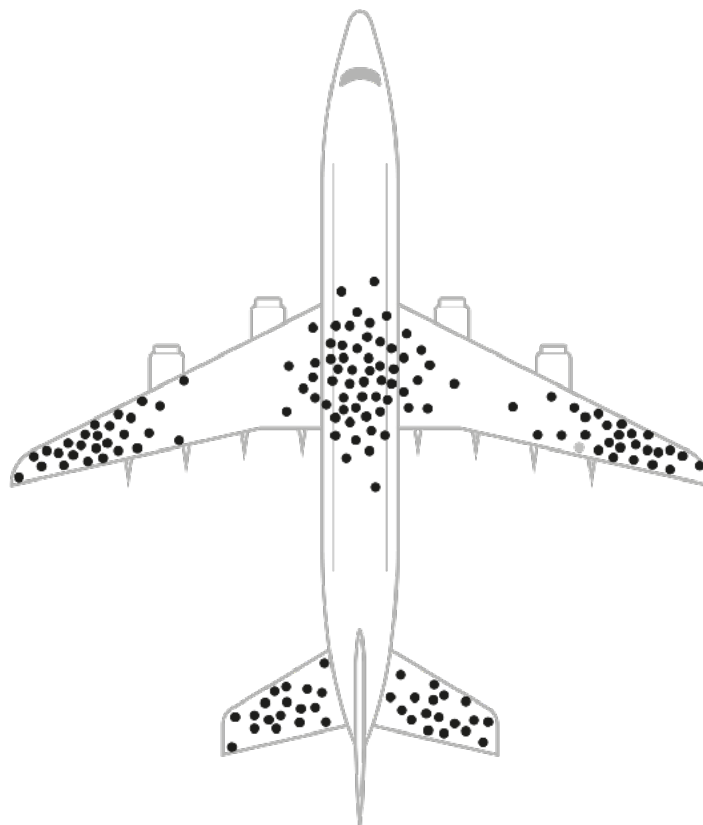


Figure 12: Looking at data critically



Figure 13: Synthetic image data



## Track 13 - Chapter 10

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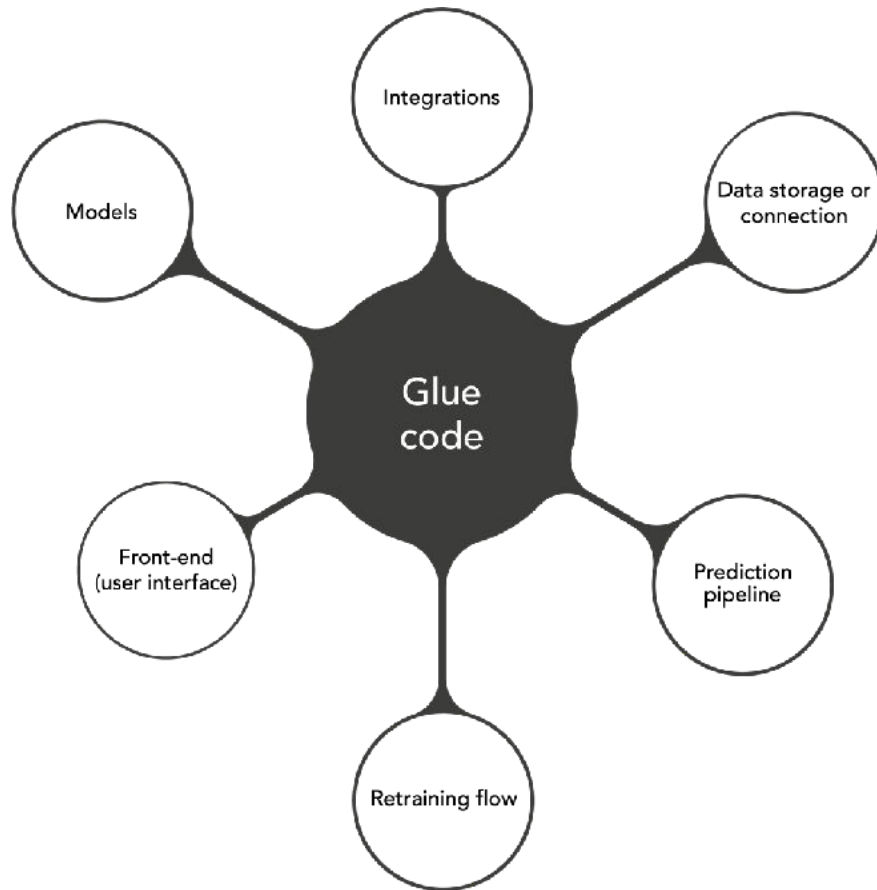


Figure 14: Anatomy of AI solutions

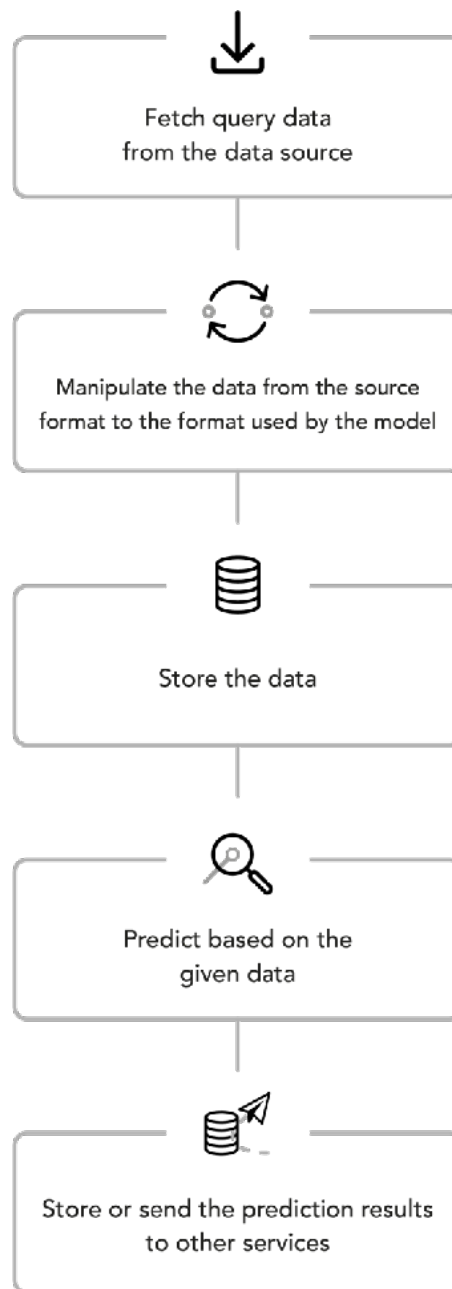


Figure 15: Prediction model

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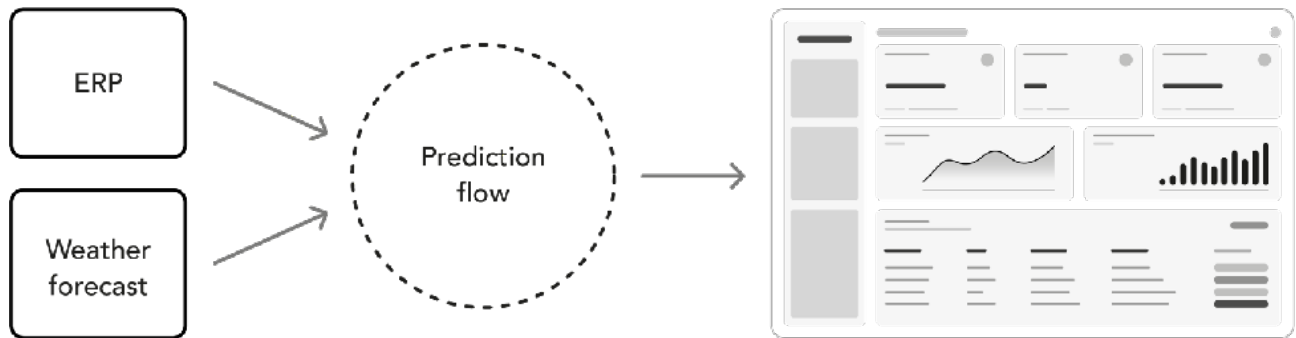


Figure 16: End to end first

Page 200

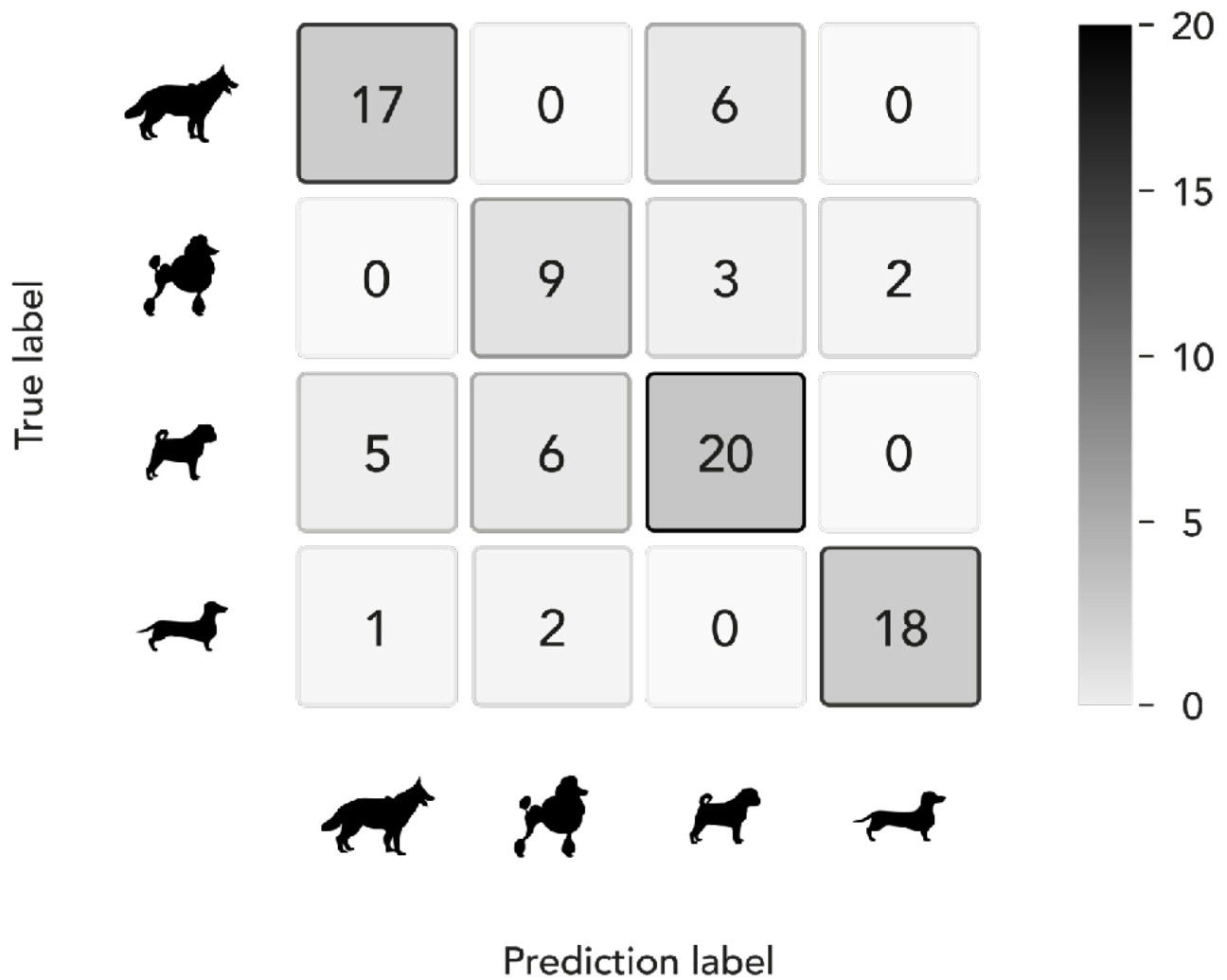


Figure 17: Confusion matrix

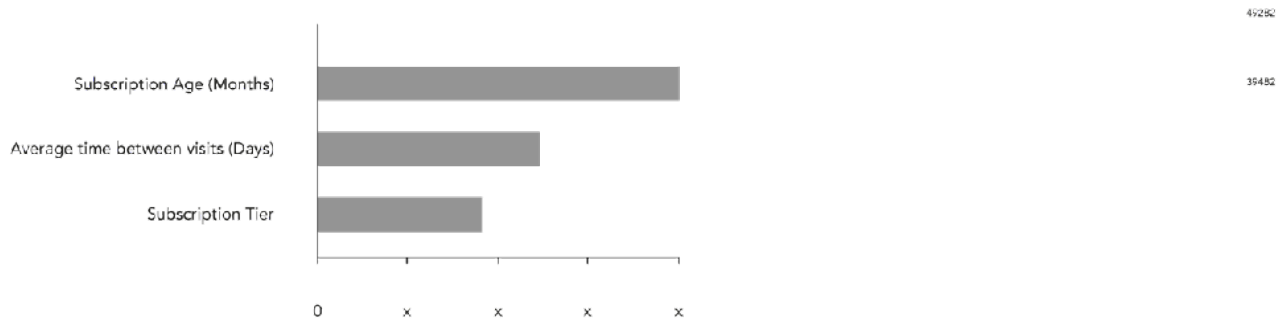


Figure 18: Feature importance

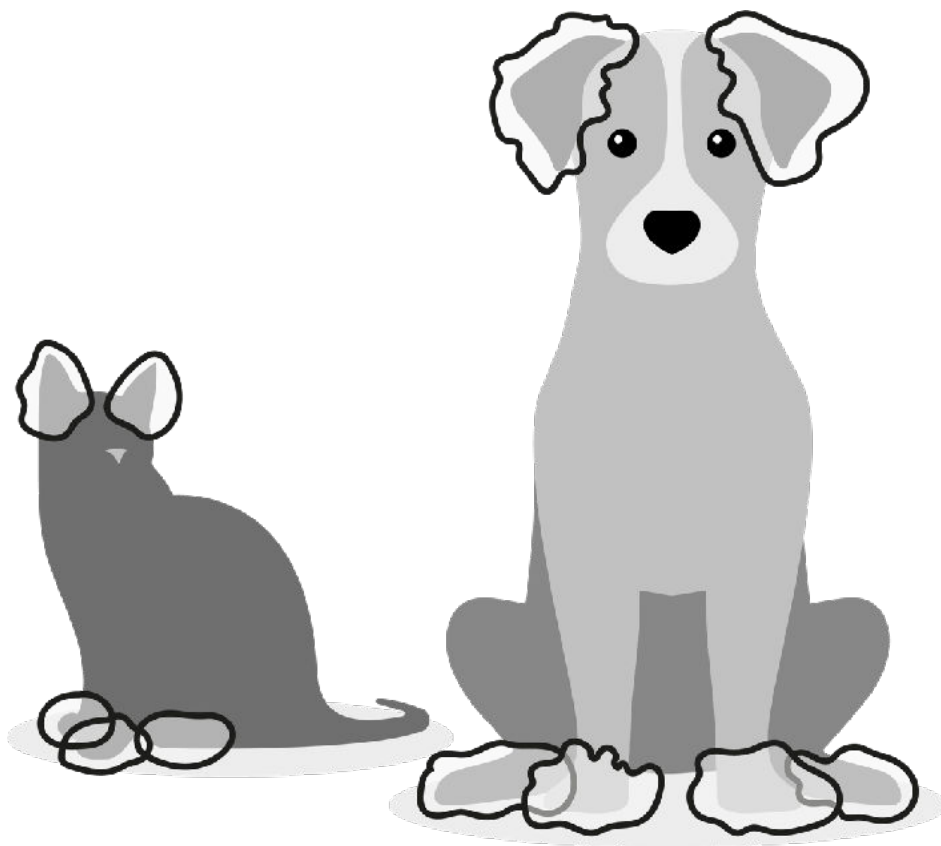


Figure 19: Image models' feature importance

Skill Level	Predictive AI	Generative AI
Novice	High Benefit	Moderate Benefit
Expert	Moderate Benefit	High Benefit

Table 17: Generative versus predictive AI

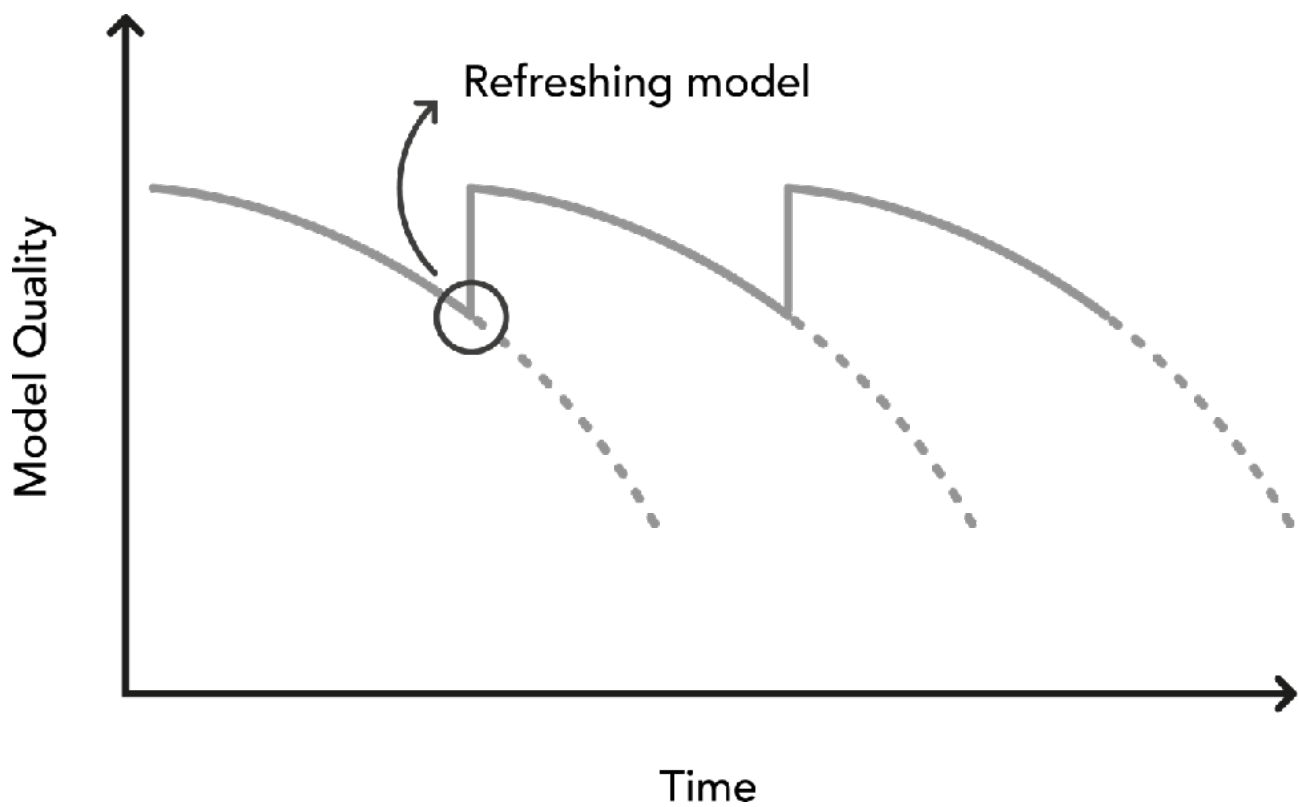


Figure 20: Drifting and monitoring

# Track 14 - Chapter 11

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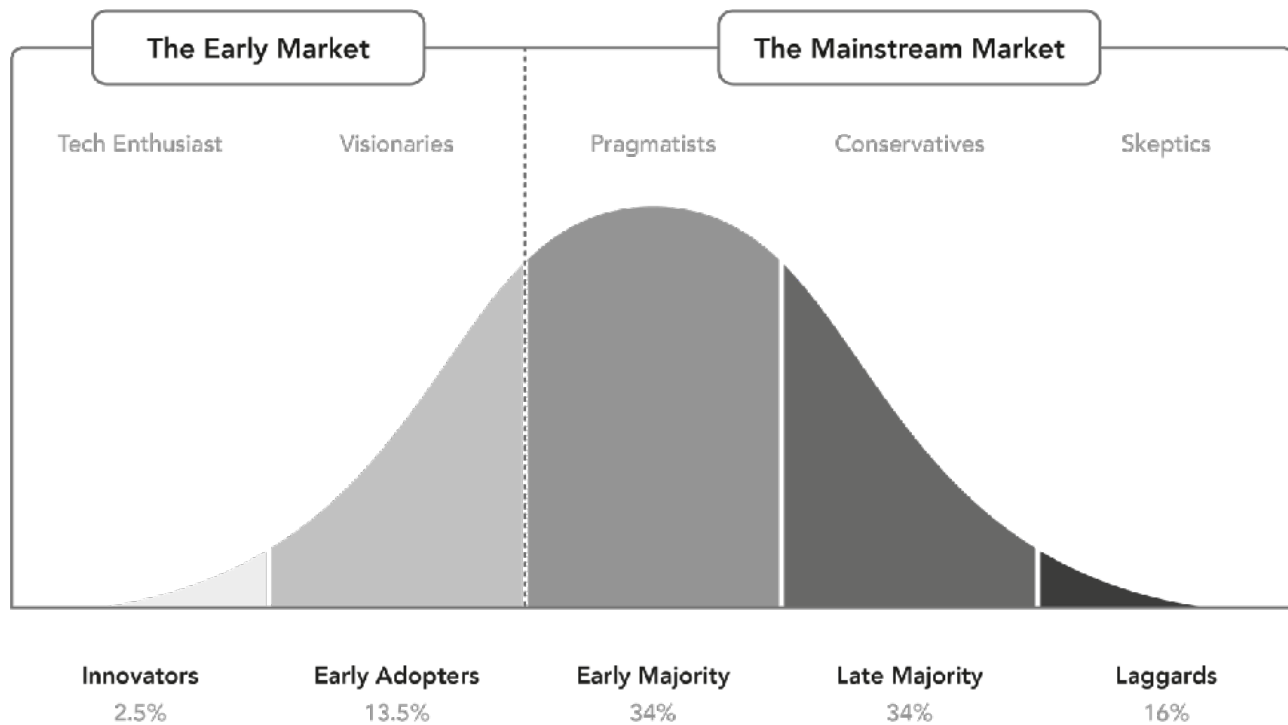


Figure 21. The Law of Diffusion of Innovation

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