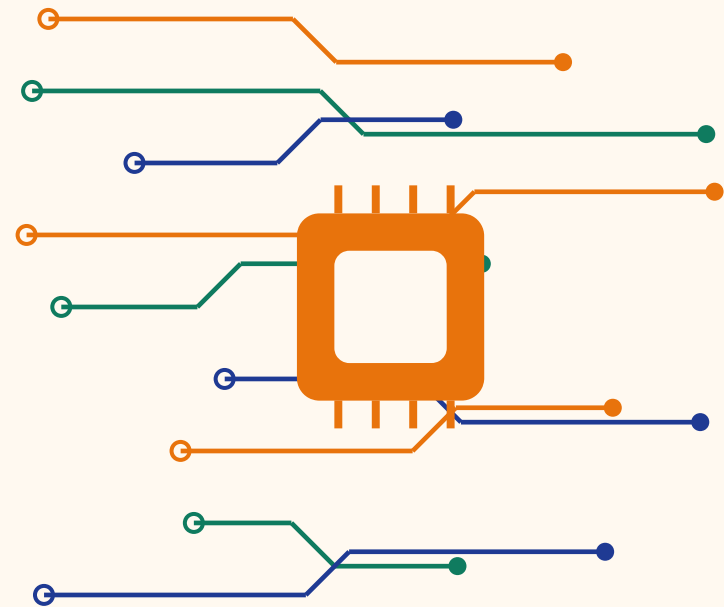


TECH TALK

26 Data Science Essentials

From raw data to decisions

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Agenda

01 Introduction

02 Architecture

03 Trends

04 Adoption



Image

KEY IDEA

**Data is only useful when
it changes a decision.**

Why it matters



Overview

- ▶ Data science turns data into insight and predictions
- ▶ It combines statistics, programming and domain knowledge
- ▶ Used in business, health, sports and government
- ▶ Clean data and clear questions matter most

KEY IDEA

Start with the question, not the algorithm.



How it works



Ask

Define the question



Collect

Gather and clean data



Model

Analyse and predict



Share

Visualise and decide



Core components

1

Data

Sources, quality and storage.

2

Models

Statistics and machine learning.

3

Communication

Charts and stories.



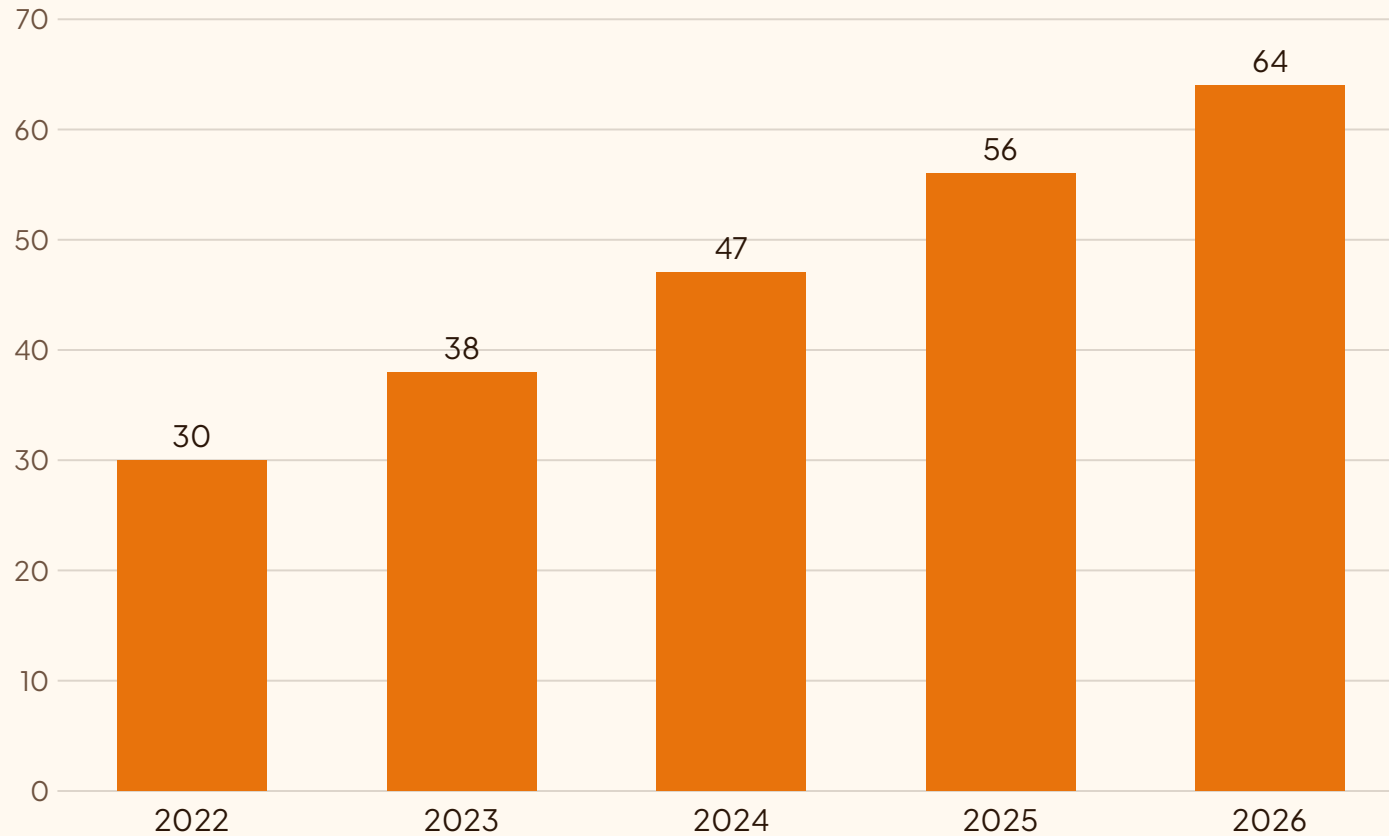
Tools and options

Layer	Popular choices	Notes
Languages	Python, R, SQL	Python is most common
Tools	Notebooks, BI dashboards	Share results easily
Libraries	pandas, scikit-learn	Free and open source

Generic examples; pick what fits your project.



Adoption over time



Adoption keeps rising as tools mature (sample data).

Sample data for illustration — replace with your own figures.



Use cases



Image 1

Retail

Demand forecasting



Image 2

Health

Risk prediction



Image 3

Sports

Performance analysis



Benefits and risks

Benefits

- ✓ Better decisions
- ✓ Finds hidden patterns
- ✓ Automates reporting

Risks

- Bad data, bad results
- Privacy concerns
- Skills shortage



Best practices

1

Clean first

80% of work is preparation.

2

Keep it simple

Simple models are easier to trust.

3

Tell a story

One chart, one message.



Getting started roadmap

Week 1

Learn

Core concepts and a tutorial



Week 2

Prototype

Small proof of concept

Week 3–4

Pilot

One real use case



Month 2

Scale

Standards, monitoring, training

Questions?

Thanks for your time.

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