

# 1 Typical AI team



# AI team members

## Core team

- Data Science Team Lead
- Data Scientist
- Data Engineer

## Supporting roles

- Business Intelligence Analyst
- Database Administrator
- DevOps / MLOps



# Data Science Team Lead

**Role:**

Manages the data science team and plan projects

**Goal:**

Make sure business goal are aligned with data vision to create value

**Toolkit:**

SQL, Python

**Skills:**

- Leadership and project management
- Interpersonal communication
- Data analysis + visualization
- Predictive modeling
- Business mindset



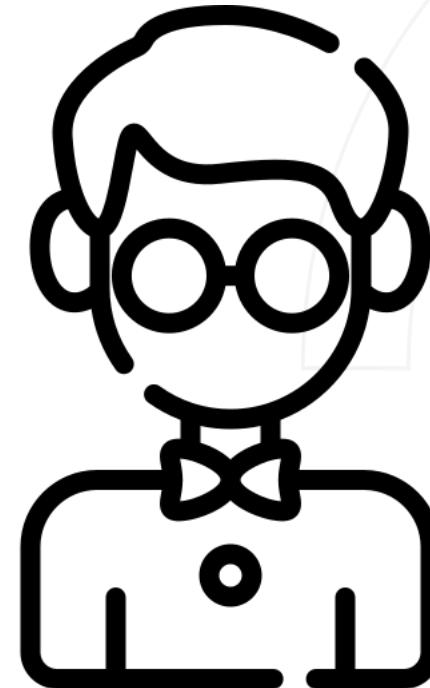
# Data Scientist

**Role:**

Collects, analyzes and interprets the data to propose business decisions

**Goal:**

Construct the means for extracting business-focused insights from data

**Toolkit:**

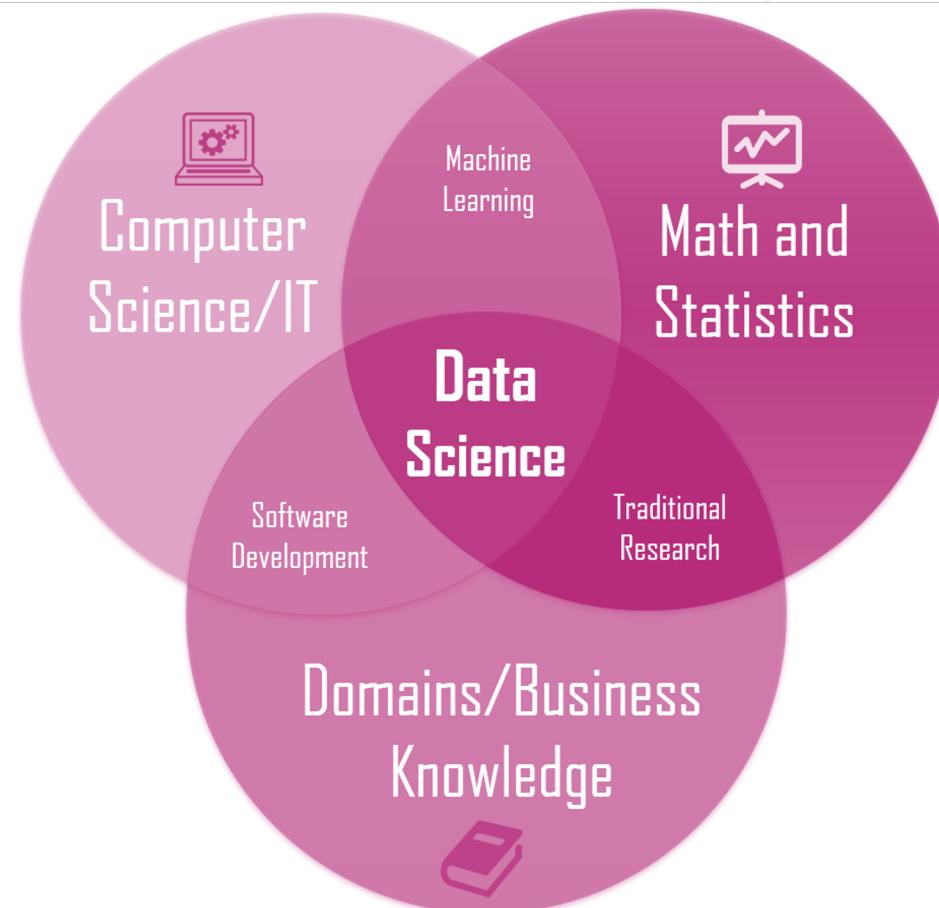
Python, Scikit-learn, Pandas, Numpy, Tensorflow, SQL

**Skills:**

Predictive modeling  
Data visualization and storytelling  
Maths and Stats  
ML and DL algorithms



# Data Scientist





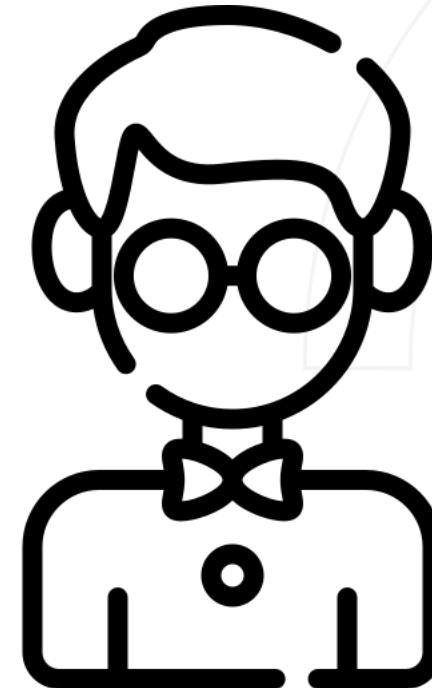
# Data Engineer

**Role:**

Design, build and implement the data infrastructure that fuels machine learning and AI analytics

**Goal:**

Integrate and manage data from various sources to support data scientists with systems to build predictive pipelines

**Toolkit:**

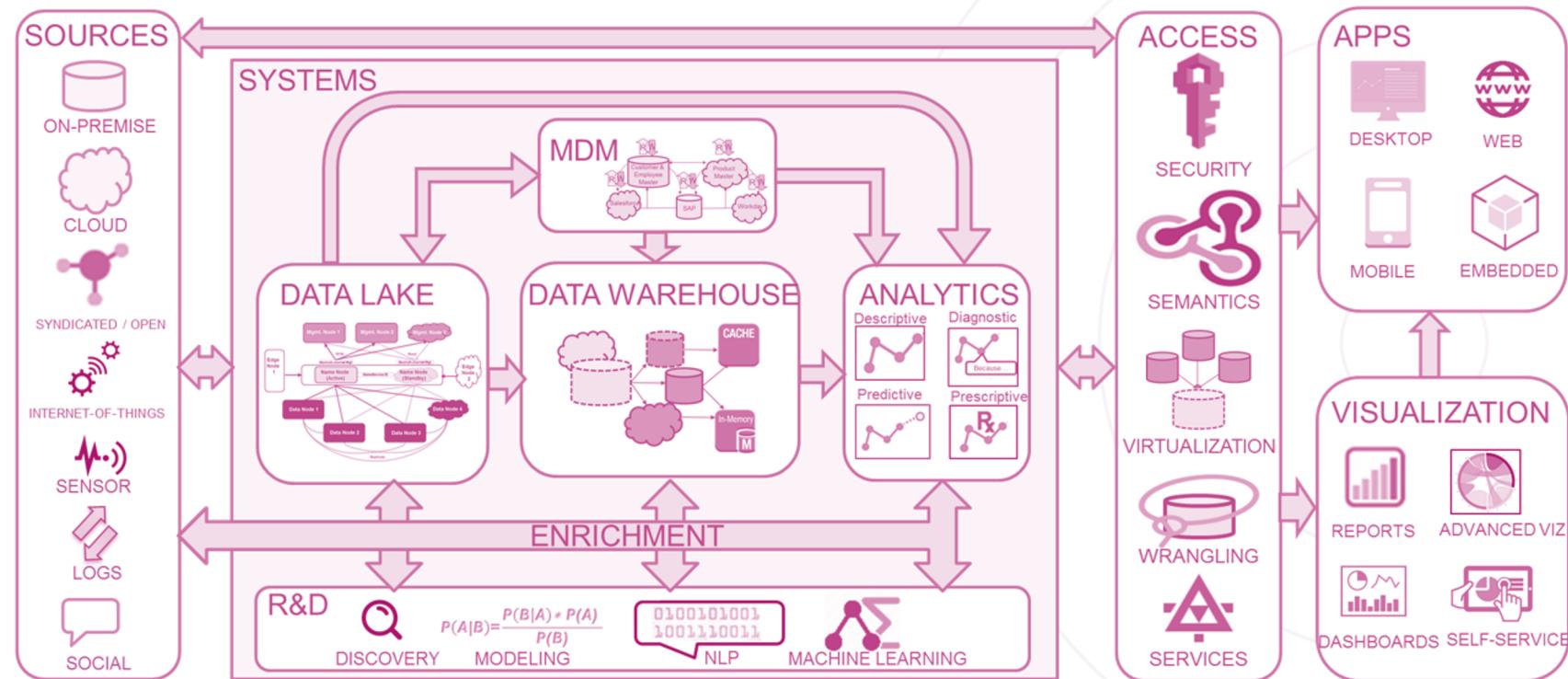
Python, SQL, ETL tools

**Skills:**

Data warehousing solutions  
Database systems  
Data modeling  
Data APIs

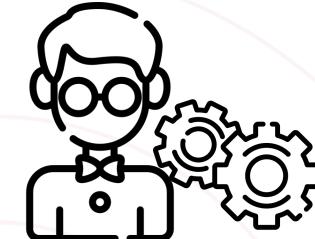


# Data Engineer





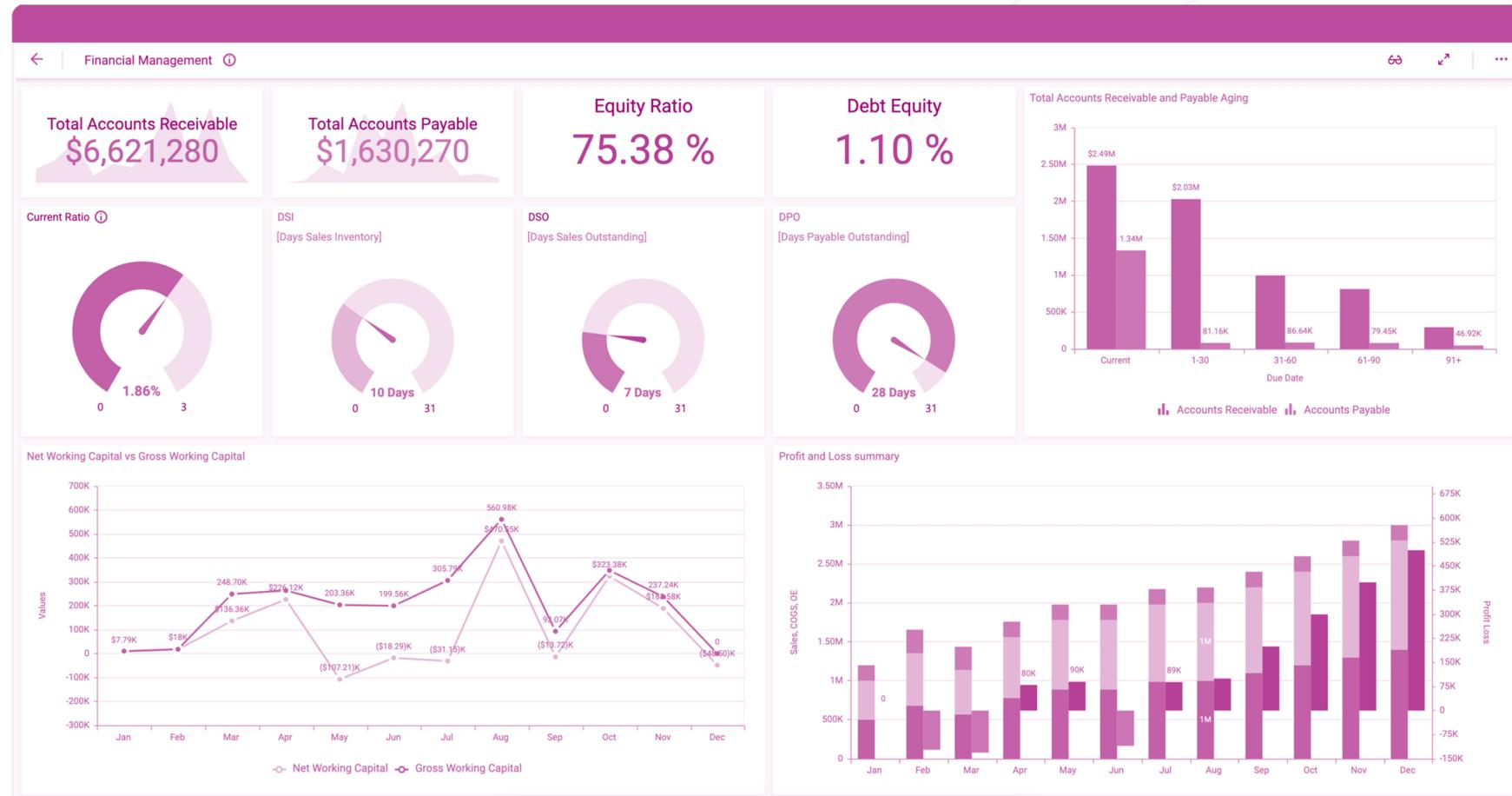
# Supporting roles



	<b>Business Intelligence Analyst</b>	<b>Database Administrator</b>	<b>DevOps / MLOps</b>
<b>Role</b>	Improves business processes via data; intermediary between DS team and department	Ensures data availability to a DS team	Integrates ML solutions into existing system
<b>Skills</b>	Data modeling Data visualization tools Communication skills Business understanding	Backup & Recovery Data modeling and design Distributed Computing Data security	Cloud Infrastructure Virtualization Knowledge of CI/CD systems
<b>Department</b>	Every department	IT Department	IT Department



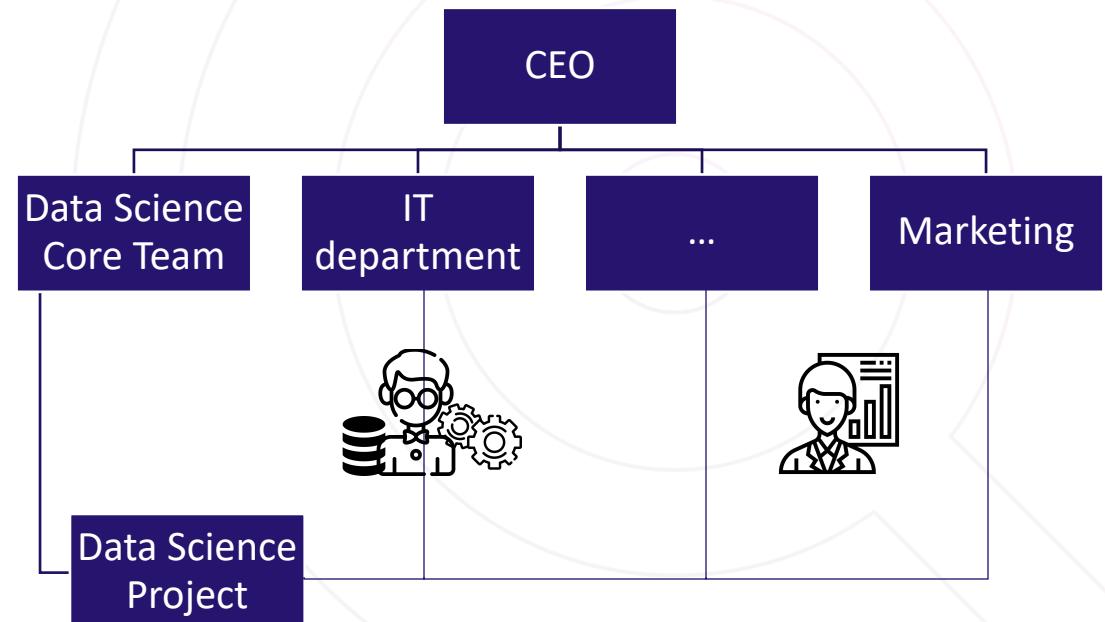
# Business Intelligence Analyst





# Organizational structure

- Data Science Team is
  - a separate organizational unit
  - reporting directly to CEO
- One team serves the whole organization in a variety of projects
- Supported by:
  - Database Administrators + MLOps from IT
  - BI Analysts at a departmental level
- Data Science Team should participate in activities of business units





# Exercise

## Who said what?

- My dashboard shows that sales are down every April in the past 4 years
- My model predicts that sales in November will go up
- I created a way for you to access sales data on a monthly level
- You are assigned to this sales project based on your retail experience
- Your ML model will be up and running in the application by tomorrow

## Role

- ...
- ...
- ...
- ...
- ...



# Exercise

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## Role

- BI analyst
- Data scientist
- Data engineer
- Team lead
- MLOps engineer