

Analytics  
*in*

**PRACTICE**

**1**

Analytics Context

5  
mins

**2**

Getting Started

10  
mins

**3**

Taking it Further

5  
mins

**4**

Question(s)?

10  
mins

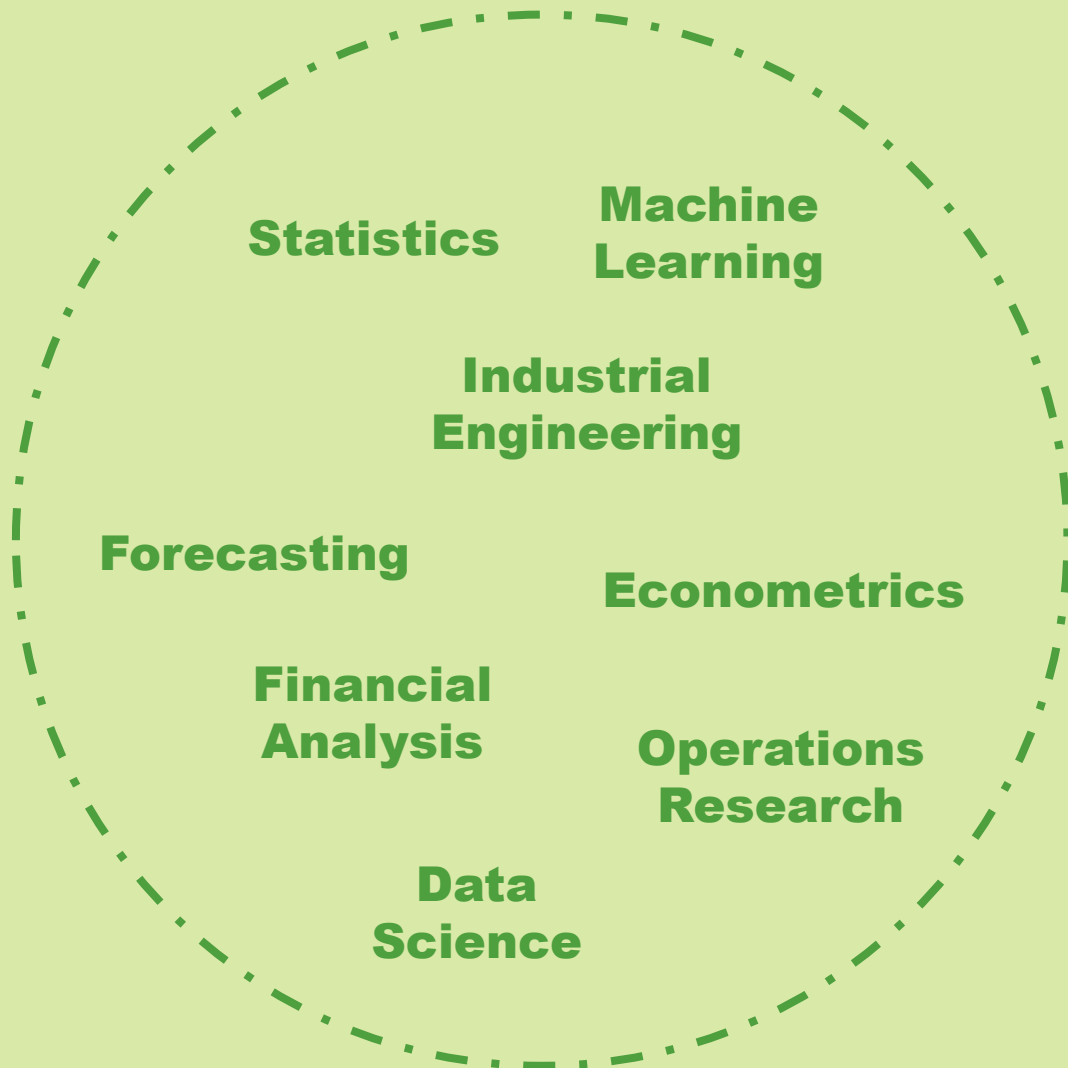
# 4th Industrial Revolution

- Demand for Digital
- Internet of Things
  - Cloud
- Data & AI tools
- Evolving Business

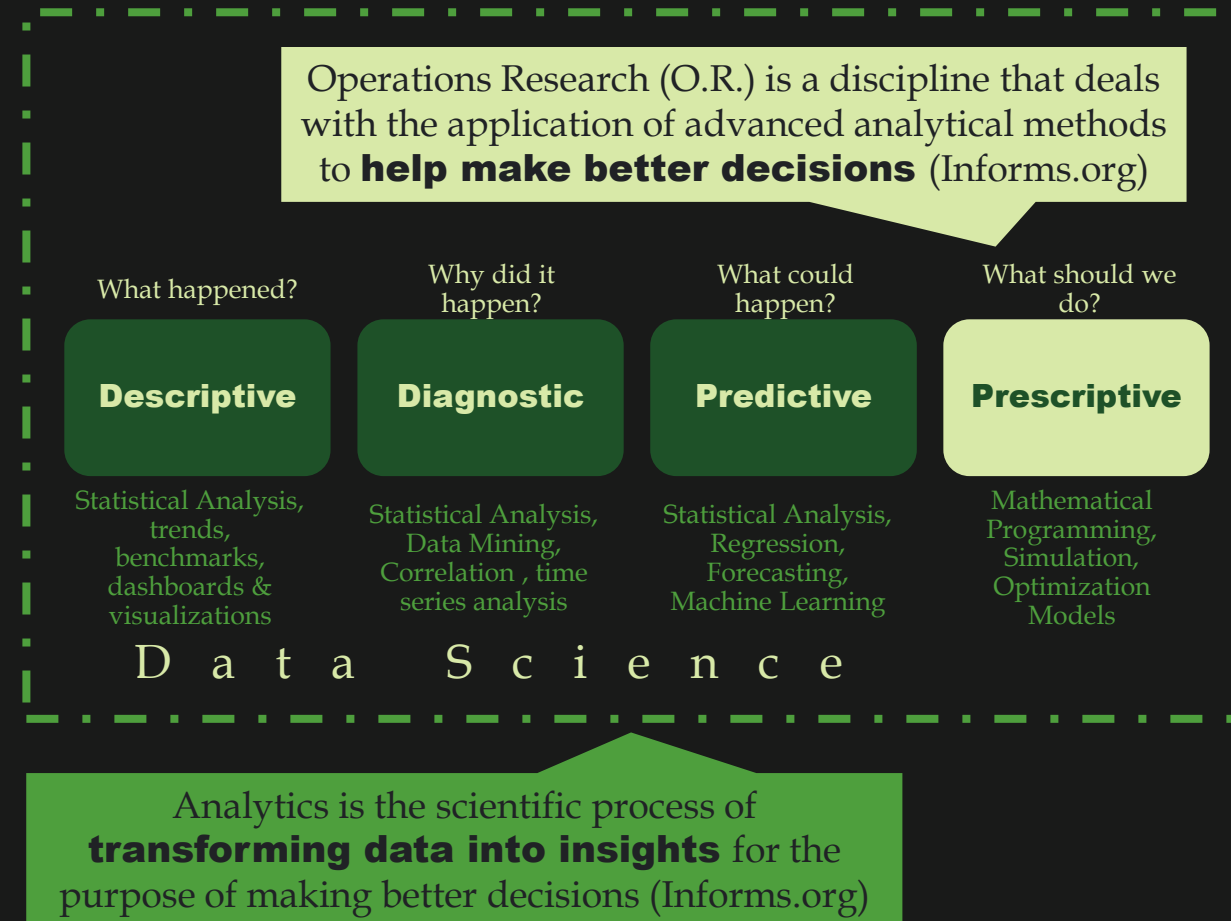
# Impact to people that work with data

- Improved capture of data
- Expanded capture of data
- Cheaper storage and compute
- Improved specialized tools
- Demand to innovate & experiment

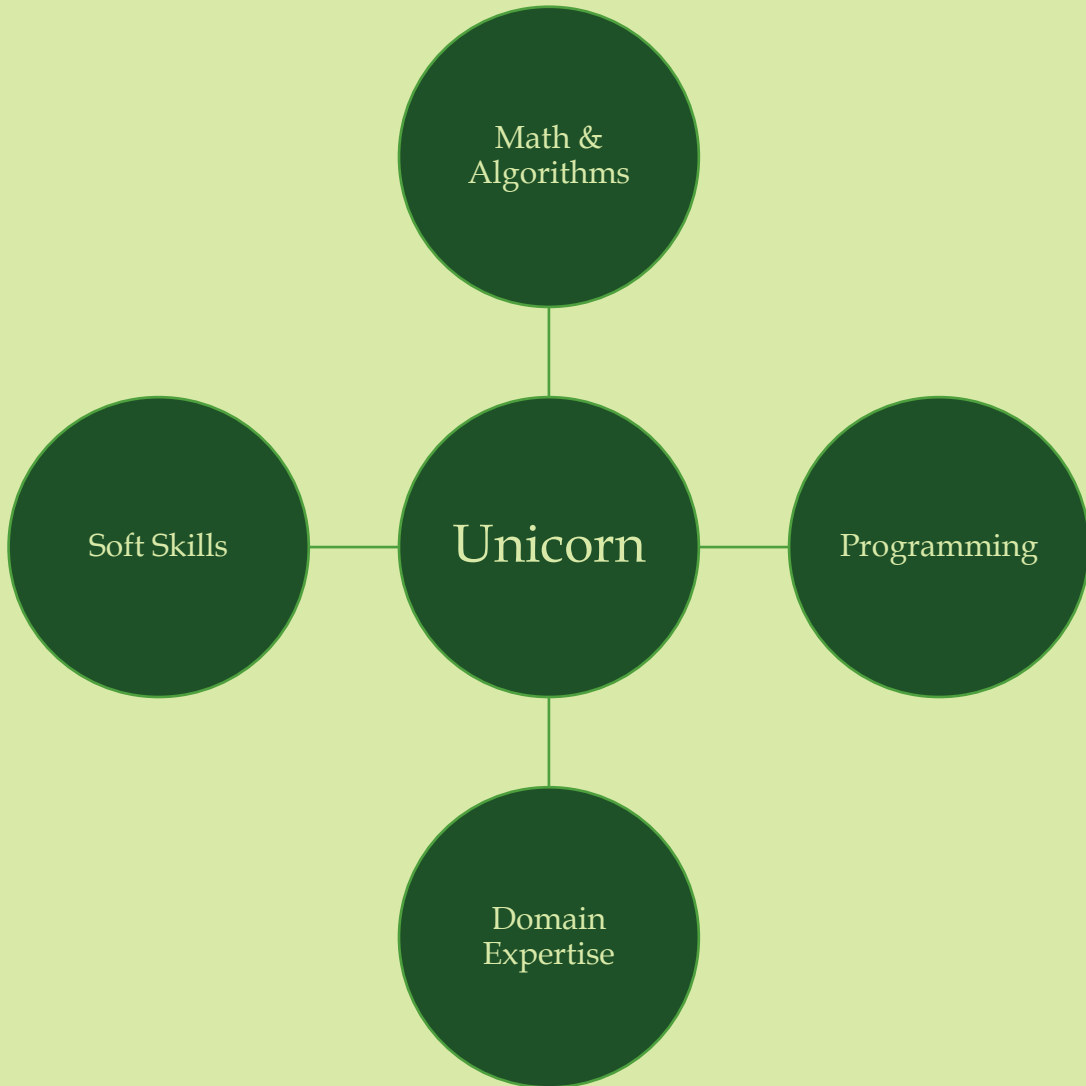
# **Analytics** as a grouping of quantitative decision sciences



# Operations Research **as part of Analytics**



# Getting Started with Analytics



# Analytics Workflow



# Common Problems Handled in Analytics

## Data Science

Data  
Exploration

Feature  
Engineering

Data  
Visualization

Classification

Regression

Forecasting

Clustering, Outlier  
Detection, & other  
Algorithms

## Operations Research

Optimization

Simulation

Network Modeling

Clustering, Outlier Detection,  
& other Algorithms

# DEMO – NORTH POLE ANALYTICS



**NOTE: THIS IS FOR DEMO PURPOSES ONLY**

# Common Challenges in Analytics

Problem Framing

Data Quality

Limitation of tools

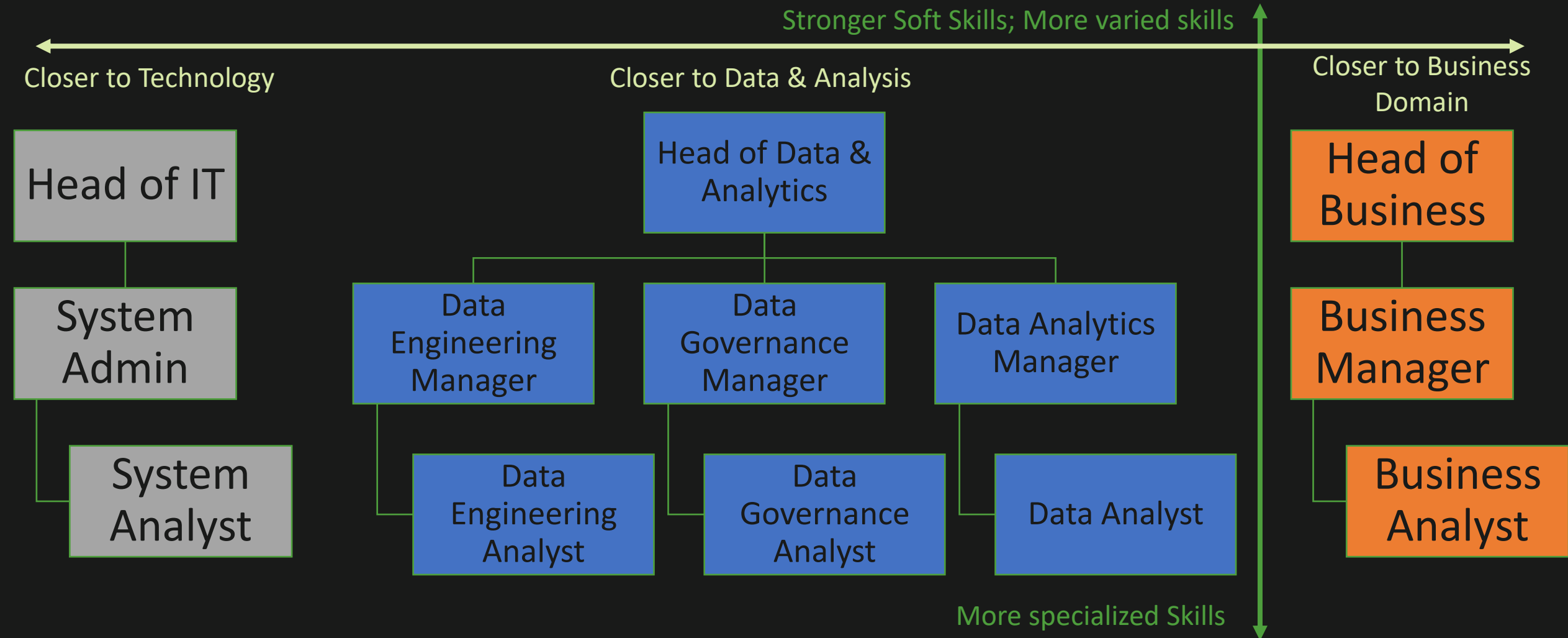
Solution scaling

Operationalization

Communication



# Different Roles & Careers in Analytics



NOTE: The names may potentially be different per organization

# How can you take this further?

## Solve

Find simple problems you can work on that you have access to data.

**Build your confidence.**

## Specialize

Focus on one thing at a time.  
One tool, domain, problem, & technique.

**Build your mastery.**

## Improve

Follow blogs, watch videos, network, & look for mentors.

**Build your hunger.**

## **Begin by:**

1. Download Anaconda/ Python @ <https://www.anaconda.com>
2. Try the codes @ <https://github.com/Ogbinar/ORSP01>
3. Add me in LinkedIn @ <https://www.linkedin.com/in/ogbinar>

**Start practicing Analytics TODAY!**