Importance of Data Science skills in Industry 4.0

Anish Mahapatra | 11 May, 2022

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Agenda

01 Introduction

02 What is Industry 4.0?

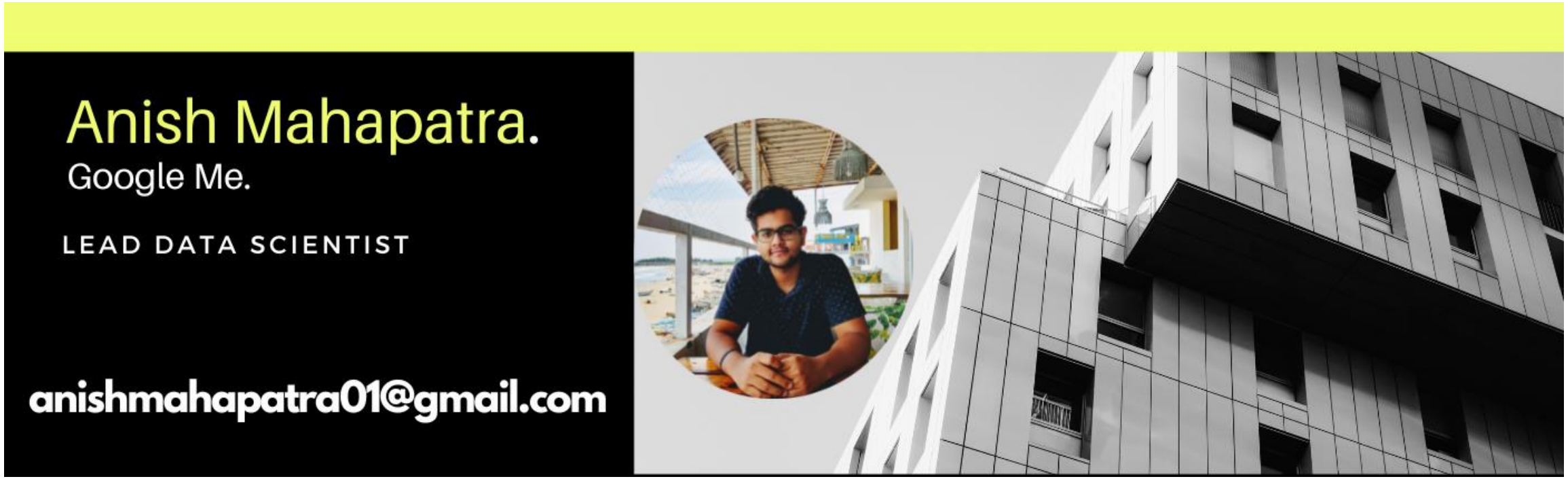
03 Applications of Industry 4.0 : What are companies looking for?

04 Top paying roles in different domains : Future of Data Science

05 Tools & Technologies, Job strategies and CTC

06 Let’s Talk!

Introduction



Lead Data Scientist

LinkedIn: www.linkedin.com/in/**anishmahapatra**

Medium: **anishmahapatra**.medium.com

Website: www.**anishmahapatra**.com

GitHub: www.github.com/**anishmahapatra**

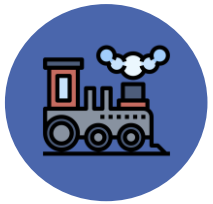
Q. How to get into Data Science?

A. Simple, ask a real-world Data Scientist.

PGD – 3.7/4 | MSc, with Distinction

The Four Industrial Revolutions

01



Industry 1.0

Mechanization and the introduction of steam and water power

02

Industry 2.0

Mass production assembly lines using electrical power

03

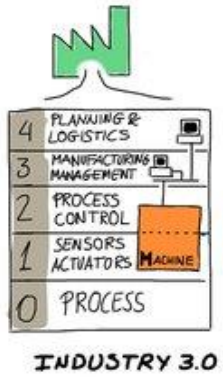
Industry 3.0

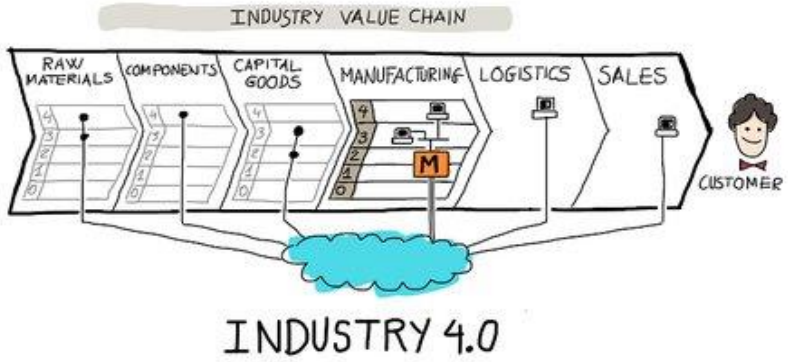
Automated production, computers, IT systems and robotics

04

Industry 4.0

The Smart Factory, Autonomous systems, IoT, Machine Learning





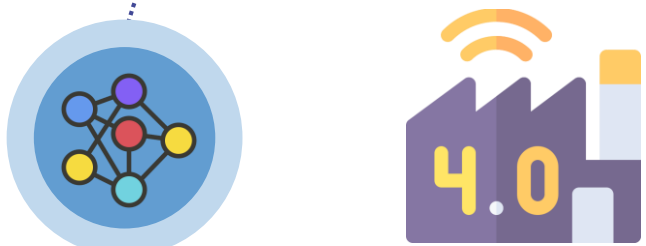
Applications of Industry 4.0

Cognitive Computing

Use of computerized models to simulate the human though process

Advanced Robotics

Advanced robots have superior perception, integrability, adaptability and mobility. This permits faster setup, commissioning and reconfiguration



Machine To Machine (M2M)

Enables Networked devices to exchange information and perform actions without the manual assistance

3D Printing

3D Printing helps increase supply chain flexibility, helping eliminate the need for expensive tools and fixtures

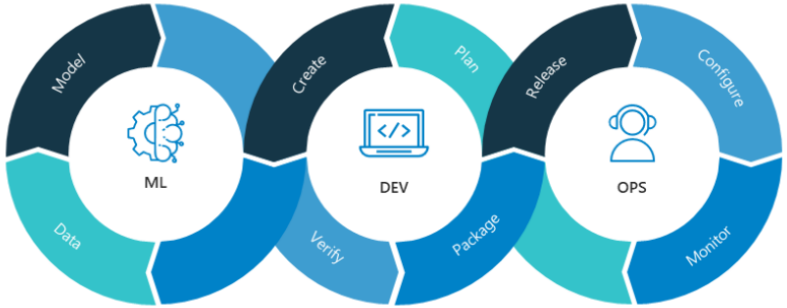
RFID Technologies / IoT

RFID is used to automate processes and utilize technology to connect systems

Cloud Computing & Cyber Security

Cloud computing & Cyber security are the foundation of smart factories

Top paying roles in the future



MLOps

Machine Learning operationalization

Digital Transformation

Intelligent manufacturing practices that interact with people, new technologies and innovation

Includes automation, cloud, robotics, Big Data, IoT, security

Data Driven Industrial 4.0

Technical, Quality, risk & safety, Management & entrepreneurship, Innovation

How to leverage a degree to get there?

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01

Set Target

Understand the Data Field,
Understand roles & responsibilities,
Look at a 5-year path

02

Talk to people

Talk to people who are already doing what you want to do

03

Build LinkedIn Profile

Add certifications, participate in competitions,
do simple projects,
look at how the best of the best do it

04

Explore Certifications

Multiple certifications don't help, the quality of it does.

05

Globally Accepted Degree (70%)

Globally recognized degree,
Degree Accepted by MNCs,
Possibility of PhD later,
Alumni Status
Bonus - WES Certification, Teachers from the industry

06

Build Collaterals & Profile (30%)

GitHub, LinkedIn,
Medium, Brand Profiling

Tools & Technologies in Data Science

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Data Engineer

Google Cloud

amazon web services

Microsoft Azure

Machine Learning Engineer

python

R

APACHE Spark

Business Analyst

tableau

Power BI

Qlik

Data Scientist

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MySQL

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Resume Optimization

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- Showcase of LinkedIn Profile
- Advanced Features of LinkedIn
- Beat the ATS
- Resume Optimization Strategy
- How to find the CTC you deserve?

Demo

Job Search Strategies

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Key Takeaways

01 Introduction

02 Motivation to do an MSc

03 How to leverage an MSc in the current market?

04 Is Master’s degree required?

05 Tools & Technologies, Job strategies and CTC

Expert Hacks:
Data Science from the lens of an expert

Anish Mahapatra

Let’s Talk!

LinkedIn: www.linkedin.com/in/**anishmahapatra**

Email: anishmahapatra01@gmail.com