

# Introduction to AI and ML

## Course description (concise)

**This program for Product managers, Program managers and tech consultants** teaches the business aspects that are important for solving and implementing data science solutions. In these days, we begin with the state of the art of data science and walk the participants through problem definition, data strategy, performance metrics and productionization strategies. The participants work on problems as groups and develop a blueprint of the solution for a problem of choice.

## Target Audience :

Open to All Global Tech associates

## Goal :

Adopting AI is as much about aligning it with business as it is about building the code and testing it. This course discusses several business aspects that are important in designing and implementing a data science project.

## AI/ML - INTRODUCTION AND APPLICATIONS

In this workshop, participants will start from the basics of AI/ML and how it is changing every sphere of life. Participants will understand how it has evolved over the years and what is needed to develop sustainable AI/ML solutions. They will get a business perspective and also an introduction to the developer's approach.

## Course Description (detail)

### Module 1:

This is a quick refresher on the state of the art in AI and Machine learning. We look at performance of latest algorithms in vision, text, speech and structured data. The participants, armed with the knowledge of what is possible, pick exciting problems for analysis for the next sessions.

## Module 2:

### **Translating a business problem for data scientists:**

In this module, we will develop a systematic framework that addresses all aspects that are important in aligning a data science solution with business. They analyse the business problem in 3 different dimensions to define it fully.

- Business and impact perspective
- Data perspective
- Infrastructure perspective

## Module 3:

### **Square pegs in a round hole:**

The paradigm of problem solving in data science is changing from science to engineering. More and more data scientists try to use existing APIs and libraries to concoct business solutions and not spend too much time in building systems from ground up. This “Lego Block” approach requires a different mindset and unlearning that the practitioners must adopt and develop. This module focuses on that.