



DeepSphere.AI  
Enterprise AI and IIoT for Analytics

# Data Science

## For Industrial Applications



Learning Level: **Foundation**

A Textbook for Building Real-World Data Science Applications on  
Multi-Cloud





## Author

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Board Member, Chief Data Scientist & Lead Instructor  
University of California  
Silicon Valley & Davis, CA, USA

Artificial Intelligence Learning Facilitator  
MIT CSAIL & MIT Sloan  
Boston, MA, USA

Head of Artificial Intelligence  
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Academic Council for AI  
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- 17+ years of management consulting and end-to-end AI (ML, DL, RPA, NLP) experience with Deloitte, E&Y, and KPMG
- Over 50+ clients across industries: Retail, Consumer, Health, Energy, Oil & Gas
- Teaches AI at MIT – Head of AI, Architect at Experfy, Harvard Innovation Lab
- Co-innovates industry solution along with SAP America
- Published on finance, AI, Big Data, IIoT, Cloud, and SAP Appliances
- Delivered many real-world research projects and globally recognized as a keynote speaker at around 50+ conferences
- Recently invited by Prime Minister's office of Dubai, Malaysia, and Montreal
- Stanford alumni

## About DeepSphere.AI



Massachusetts  
Institute of  
Technology



DeepSphere.AI is neither another training company nor an online educational portal.

We are a next-gen academic transformation platform for personalized and cognitive learning. Our learning platform is a simple and easy-to-learn intelligent learning management system (iLMS) offered under the cost-effective subscription model – SaaS model.

Bringing the first AI platform that brings academic, industry and technology for unified learning.

### OUR MISSION

Focus only on developing students to become a Next-Gen talent.

### OUR GOAL

To coach and mentor the students to gain hands-on practical problem-solving skills and create an on-job learning experience in applied AI for the global talent transformation.

## Our Team

DeepSphere.AI team comprises University of California Board Members, MIT learning facilitators, Harvard PhDs, Stanford Alumni, Industry Leaders, and Proven Entrepreneurs. The group collectively brings business and technology together with the risk-free implementation and profoundly learning Artificial Intelligence.

# Executive Summary

**Challenges:** Until now, Data science has been seen as an academic concept or scientific research rather than an industry solution for enterprises. We took our first step to change this perspective by developing a data science textbook for industrial solutions. Our goal is to develop simple and easy-to-follow learning material, to confidently design and build data science solutions for real-world industry problems, and quickly discover measurable business values. Presently, this textbook is the course material for students pursuing undergraduate in data science, artificial intelligence, and cognitive sciences.

**Solution:** Learning data science for enterprise is the interdisciplinary study of business, data, machine learning, and computing. After deep research, we learned that the industry lacks a one-stop learning resource covering this multidisciplinary field of study. Therefore, we developed these learning resources to implement enterprise data science solutions from problem statements to deployment. This learning material demonstrates the steps and processes involved in developing data science solutions for retail, consumer, health, energy, and oil & gas industries.

**Approach:** Our goal is to address everyone's needs, from students to professionals to leaders. We created these materials for a phased learning approach. The phased learning approach enables the learners to start from the foundation level, even if they do not know anything about the topics, but are enthusiastic about learning the advanced level of data science.

**Technology:** We use Google cloud as a development platform to design and develop technical architecture, system interfaces, data architecture, ETL (extract transform and load), and application artefacts for data engineering, machine learning models, and data science solutions.

**A Textbook building the  
Data Science Career for  
50,000+ students**