Professional and Soft Skills for Continuous Education of Data Professionals to enable the Digital Transformation of companies

Digital Transformation
- Digitisation and IoT
- Digitalisation of Processes
- Optimisation and Simulation
- Intelligent Information and Knowledge Management
- Data Management Maturity
- Digital Assets Manage
- Agile Data Driven Organisational Model
- Customer Experience
- People and skills

Data Analytics and Processes digitalisation are driving Industry 4.0

21st Century or Workplace Skills

Top Skills for Future Data Driven Industry and Research
- Complex Problem Solving
- Critical Thinking
- Creativity
- People Management
- Coordinating with Others, Negotiation
- Emotional Intelligence
- Judgment and decision making
- Service Orientation, Customer focus
- Working with tools and technologies
- Dynamic (self-) re-skilling
- Cognitive flexibility
- Professional networking
- Ethics and professional code of conduct

Data Scientist Professional Skills

Thinking and Acting like Data Scientist
1. Recognise value of data, work with raw data, exercise good data intuition, use SN and open data
2. Accept (be ready for) iterative development, know when to stop, comfortable with failure, accept the symmetry of outcome (both positive and negative results are valuable)
3. Good sense of metrics, understand importance of the results validation, never stop looking at individual examples
4. Ask the right questions
5. Respect domain/subject matter knowledge in the area of data science
6. Data driven problem solver and impact-driven mindset
7. Be aware about power and limitations of the main machine learning and data analytics algorithms and tools
8. Understand that most of data analytics algorithms are statistics and probability based, so any answer or solution has some degree of probability and represent an optimal solution for a number of variables and factors
9. Recognise what things are important and what things are not important (in data modeling)
10. Working in agile environment and coordinate with other roles and team members
11. Work in multi-disciplinary team, ability to communicate with the domain and subject matter experts
12. Embrace online learning, continuously improve your knowledge, use professional networks and communities
13. Story Telling: Deliver actionable result of your analysis
14. Attitude: Creativity, curiosity (willingness to challenge status quo), commitment in finding new knowledge and progress to completion
15. Ethics and responsible use of data and insight delivered, awareness of dependability (data scientist is a feedback loop in data driven companies)