Data Science Competence Model

The vision of DSO is that a data scientists should be able to handle whole stack of DS project activities: talk to customers, understand their needs and define the solution, create, build and test DS models and deliver them in a form that can be used, deployed and maintained (by engineers, DevOps etc) without involvement of the data scientist.

To implement this vision, a competence model includes three areas: Business, Logic and Technology. These areas contain skills required for business understanding, using applied math for solving them and implementing the solution correspondingly.

Knowledge Area	Junior Data Scientist	Data Scientist	Senior Data Scientist
Business area			
Requirements Management	BEGINNER	COMPETENT	EXPERT
System Analysis/Modeling	BEGINNER	COMPETENT	COMPETENT
Basics of Business Strategy		BEGINNER	COMPETENT
Basics of Product Management		BEGINNER	COMPETENT
Basics of Organizational Behavior		BEGINNER	COMPETENT
Basics of Economics		BEGINNER	COMPETENT
Logic Area			
Statistics/Probability	COMPETENT	EXPERT	EXPERT
Machine Learning	BEGINNER	COMPETENT	EXPERT
Data Mining		BEGINNER	COMPETENT
Natural Language Processing		BEGINNER	COMPETENT
Artificial Intelligence	BEGINNER	COMPETENT	EXPERT
Technology area			
Python			
R			
SQL			
Matlab			
Distributed storage and computations			
GPU computing			
Data visualization			
Deployment			