

SINGLE MODULES

Subject	Academic Discipline	Credits
Algorithmic Foundations and Programming Skills		6
Algorithms and programming in Python for data science	INF/01	3
Machine learning	ING-INF/05	2
Optimization for machine learning	MAT/09	1
Statistical Learning for Data Science		6
Statistical learning	SECS-S/01	2
Geo-spatial data analysis	SECS-S/01	2
Network data analysis	SECS-S/01	2
Supervised and Unsupervised Learning		6
Advanced machine learning	MAT/09	3
Deep learning, neural networks, and reinforcement learning	ING-INF/05	3
Complex Systems		6
Text mining and NLP	ING-INF/05	2
Complex networks analysis	FIS/03	2
Complex system analysis	FIS/03	2
Decision Theory for Data Science		7
Bayesian causal inference	SECS-S/01	3
Analytics in economics and business	SECS-P/06	3
Ethics and law for data science	IUS/08	1