

# PROGRAMMA DATA SCIENCE

## MACHINE AND STATISTICAL LEARNING

12 CFU - 96 ORE

STATISTICAL MODELS

DATA ANALYSIS

AND STATISTICAL LEARNING

TREE-BASED MODELS

DATA MINING ON SOCIAL MEDIA

TEXT MINING

MISSING DATA

BAYESIAN AND NEURAL NETWORKS

DEEP LEARNING ON TEMPORAL DATA

## PROGRAMMING SKILLS

5 CFU - 40 ORE

PROGRAMMING WITH R

PROGRAMMING WITH PYTHON

## APPLIED MATHEMATICS, ECONOMICS AND BUSINESS

6 CFU - 48 ORE

RISK MANAGEMENT

REVENUE MANAGEMENT

MACHINE LEARNING IN ECONOMICS AND BUSINESS

ADVANCED ECONOMICS

## COMPUTER SCIENCE

9 CFU - 72 ORE

DATABASES

DATA WAREHOUSING

BUSINESS INTELLIGENCE AND PERFORMANCE

DATA MINING

DEEP LEARNING

## DATA MANAGEMENT

4 CFU - 32 ORE

DATA MANAGEMENT

DATA PROTECTION

WEB DATA

ERRORS IN DATA

## EXPERIENCE/LAB/CASES STUDY

4 CFU - 72 ORE

OUTPUT MANAGEMENT

DATA/OUTPUT MANAGEMENT

CASE STUDY

BUSINESS GAME

SOFT SKILLS

## TIROCINIO

CFU 16

## PROJECTWORK

4 CFU

# PROGRAMMA

## ARTIFICIAL INTELLIGENCE

### MACHINE AND STATISTICAL LEARNING

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STATISTICAL MODELS

DATA ANALYSIS

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TREE-BASED MODELS

DATA MINING ON SOCIAL MEDIA

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MISSING DATA

BAYESIAN AND NEURAL NETWORKS

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5 CFU - 40 ORE

PROGRAMMING WITH R

PROGRAMMING WITH PYTHON

### ADVANCED PROGRAMMING SKILLS

8 CFU - 64 ORE

INTRODUCTION TO JAVA

OOP

DATA STRUCTURES AND ALGORITHMS

ADVANCED TOPICS

### DATABASES

5 CFU - 40 ORE

DATABASE DESIGN

DATABASE QUERYING

DBMSS

### ARTIFICIAL INTELLIGENCE

6 CFU - 48 ORE

INTRODUCTION TO NEURAL NETWORKS

ADVANCED TOPICS ON NEURAL NETWORKS

KNOWLEDGE REPRESENTATION AND

REASONING

TEMPORAL REASONING AND PROCESS

INTELLIGENCE

### EXPERIENCE/LAB/CASES STUDY

4 CFU - 72 ORE

OUTPUT MANAGEMENT

DATA/OUTPUT MANAGEMENT

CASE STUDY

BUSINESS GAME

SOFT SKILLS

### TIROCINIO

CFU 16

### PROJECTWORK

4 CFU