



**BIG DATA VALUE**  
eCOSYSTEM

## **D4.5 Big Data Value Education Hub Initial Release**

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Abstract:	This document is a report providing the ambitions, basis and plans for the release of the BDV Education Hub (Deliverable Type: Other) at month 6 of the project. The BDV Education hub is an online platform and living repository for knowledge about European educational programmes targeted and relevant to data scientists and data engineers.



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### History

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Version	Date	Modifications Introduced	
		Modification Reason	Modified by
V0.1	12/06/2017	Document structure and ambitions	UDE
V0.3	26/06/2017	Population with list of programmes and statistics	UDE, SAP
V0.9	28/06/2017	Internal Review Version	UDE
V1.0	03/07/2017	Final Version for quality review	UDE, ATOS
FINAL	04/07/2017	Final version ready for submission	

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## Definitions, Acronyms and Abbreviations

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Acronym	Title
BDVA	Big Data Value Association
SC	Big Data Value Steering Committee
TC	Big Data Value Technical Committee
ToR	Terms of Reference
SG	BDVA Secretary General
DSG	BDVA Deputy Secretary General
VP	BDVA Vice President

**Table 1: Definitions, Acronyms and Abbreviations**

# Executive Summary

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This document is a report providing the ambitions, basis and plans for the release of the BDV Education Hub (Deliverable Type: Other) at month 6 of the project. The BDV Education hub is an online platform and living repository for knowledge about European educational programmes targeted and relevant to data scientists and data engineers. The BDV Education Hub will be hosted as part of the BDV PPP web portal and marketplace (being developed in WP5 and WP3). As such, the actual deliverable (Deliverable Type: Other) will be available as soon as the portal and marketplace is live.

Specifically, the BDV Education Hub will be released in three stages:

- Stage 1:
  - Stage 1a: The information collection for the BDV Education Hub will have been completed with a catalogue of EU Masters Programmes related to Big Data Value (by end of June 2017)
  - Stage 1b: The BDV Education Hub (as part of the BDV portal and marketplace: <http://www.big-data-value.eu/>) will feature a list of European Masters Programmes linked to Big Data Value (planned shortly after June 2017)
- Stage 2: Augmenting the BDV Education Hub with PhD programmes and prominent professional education and training programmes (planned for June 2018)
- Stage 3: The Education Hub will feature knowledge profiles about the educators' skills and research institutions' profiles (planned after June 2018)

# 1 Introduction

This document reports on the outcomes of the BDVe task T4.2 “Big Data Value Education Hub”. In particular, this document complements the actual contractual deliverable of type OTHER. As the Education Hub is aimed to be offered in a more global marketplace, the actual deliverable of type OTHER will be available as soon as the portal and marketplace are live (<http://www.big-data-value.eu/>).

This document, is structured as follows:

- Section 2 describes the approach for collecting data about the European Masters Programmes linked to Big Data Value. A systematic survey and collection of these Masters Programmes has been carried out, leading to a current list of 191 programmes.
- Section 3 provides an overview and listing of these programmes and their key characteristics, as well as initial statistics visualizing the current distribution of programmes across the EU.
- Section 4 concludes and describes the next steps of the BDV Education Hub roadmap.

## 2 EU Masters Programmes: Data Collection

The first round of data collection of EU Master Programmes on Big Data considered two main sources of information.

On the one hand, we manually analysed available listings of Master Programmes, and filtered, for instance for EU relevance and relation to data value (instead of pure scientific data areas). The list we started from included:

- The EU Masters Portal: <http://www.mastersportal.eu/>
- The list of international university programmes collected by the EDISON project: <http://edison-project.eu/university-programs-list>
- An inventory of Master programmes collected by the PICASSO project: <http://www.picasso-project.eu/project/>

On the other hand, we performed an Internet keyword search, considering the following keywords:

- Big Data
- Business Analytics
- Data Analytics
- Data Engineer
- Data Governance
- Data Management
- Data Scientist



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As a result, we ended up with a list of 191 manually determined Master Programmes that are relevant and linked to Big Data Value.

### 3 List of EU Masters Programmes

Below we describe the current 191 of EU Masters Programmes identified by BDVe at month 6 of the project (i.e., June 2017). To this end, we first provide an overview (statistics) of the distribution of the programmes, and then provide a list of all programmes with their key characteristics.

#### 3.1 Overview

Table 2 provides shows the number of Masters Programmes per EU Country, showing clear centre of gravity towards the UK, France and Germany.

Country	Number
UK	61
France	25
Germany	19
Italy	14
Netherlands	17
Spain	11
Sweden	8
Finland	7
Ireland	5
Belgium	5
Denmark	3
Romania	3
Portugal	2
Poland	1
Norway	1
Switzerland	1
Czech Republic	1
Greece	1
Austria	1
Bulgaria	1
Hungary	1
Estonia	1
Lithuania	1
Cyprus	1
<b>TOTAL</b>	<b>191</b>

Table 2. Number of Masters Programmes per EU Country

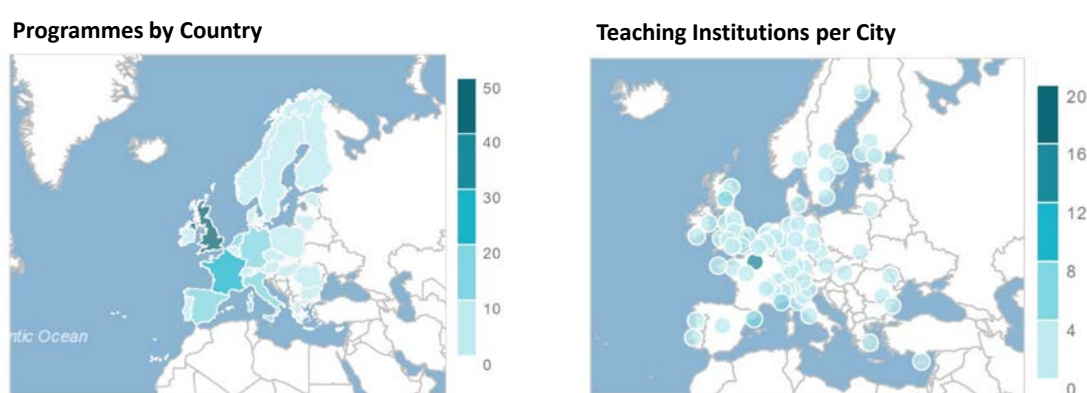
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This first insight into the geographical distribution would suggest additional points for “analysis”, such as

- Does the educational geographical landscape match with industries working in this region/country?
- Is there a “matching” between the locations where programs are offered and the building of startups?
- Can regions be identified where is “lack” of programs but a need in terms of companies working in this area?

Initial discussions on this observation have started in BDVe.

Figure 1 illustrates some additional key statistics of the 191 EU Masters Programmes collected, in particular the distribution by city, showing the clustering of programmes to larger urban centres.



**Figure 1. Statistics of the EU Masters Programmes in the BDV Education Hub**

In how far the city-level distribution is relevant and thus should have an impact on how to present and dissemination the BDV Education Hub is to be determined.

## 3.2 List of Programmes

The tables below list the collected EU Masters Programmes per country, and alphabetically by the education institution (University) for each country.

**Table 3. UK**

Name of Programme	University	Duration (Semesters)	Link to website
Advanced Computing Technologies M. Sc.	Birbeck University of London	2	<a href="https://www.dcs.bbk.ac.uk/study-with-us/postgraduate-specialist/msc-advanced-computing-technologies/">https://www.dcs.bbk.ac.uk/study-with-us/postgraduate-specialist/msc-advanced-computing-technologies/</a>
M.Sc. Big Data Analytics	Birmingham City University	2	<a href="http://www.bcu.ac.uk/courses/big-data-analytics-msc-2017-18">http://www.bcu.ac.uk/courses/big-data-analytics-msc-2017-18</a>
M.Sc. Applied Data Analytics	Bournemouth University	2	<a href="https://www1.bournemouth.ac.uk/study/courses/msc-applied-data-analytics">https://www1.bournemouth.ac.uk/study/courses/msc-applied-data-analytics</a>
M.Sc. Data Science and Analytics	Brunel University London	2	<a href="https://www.brunel.ac.uk/study/postgraduate/data-science-and-analytics-msc#">https://www.brunel.ac.uk/study/postgraduate/data-science-and-analytics-msc#</a>

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Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Data Science	City University of London	2	<a href="http://www.city.ac.uk/courses/postgraduate/data-science-msc">http://www.city.ac.uk/courses/postgraduate/data-science-msc</a>
M.Sc. Data Science and Computational Intelligence	Coventry University	2	<a href="http://www.coventry.ac.uk/course-structure/engineering-environment-and-computing/postgraduate/data-science-and-computational-intelligence-msc/">http://www.coventry.ac.uk/course-structure/engineering-environment-and-computing/postgraduate/data-science-and-computational-intelligence-msc/</a>
M.Sc. Environmental Data Science	Cranfield University	2	<a href="https://www.cranfield.ac.uk/courses/taught/environmental-data-science">https://www.cranfield.ac.uk/courses/taught/environmental-data-science</a>
M.Sc. Intelligence Systems and Data Mining	De Montfort University	2	<a href="http://www.dmu.ac.uk/study/courses/postgraduate-courses/business-intelligence-systems-and-data-mining/business-intelligence-systems-and-data-mining-msc-degree.aspx">http://www.dmu.ac.uk/study/courses/postgraduate-courses/business-intelligence-systems-and-data-mining/business-intelligence-systems-and-data-mining-msc-degree.aspx</a>
M.Sc. Business Information Technology	Edinburgh Napier University	2	<a href="http://www.napier.ac.uk/courses/msc-business-information-technology-postgraduate-fulltime">http://www.napier.ac.uk/courses/msc-business-information-technology-postgraduate-fulltime</a>
M.Sc. Big Data Technologies	Glasgow Caledonian University	2	<a href="http://www.gcu.ac.uk/study/postgraduate/courses/search/?kw=big+data+technologies">http://www.gcu.ac.uk/study/postgraduate/courses/search/?kw=big+data+technologies</a>
M.Sc. Data Science	Goldsmiths, University of London	2	<a href="http://www.gold.ac.uk/pg/msc-data-science/">http://www.gold.ac.uk/pg/msc-data-science/</a>
M.Sc. Data Science	Heriot-Watt University	2	<a href="http://www.macs.hw.ac.uk/cs/pgcourses/ds.htm">http://www.macs.hw.ac.uk/cs/pgcourses/ds.htm</a>
M.Sc. Biomedical Research	Imperial College London	2	<a href="https://www.imperial.ac.uk/medicine/study/postgraduate/masters-programmes/mres-biomedical-research/">https://www.imperial.ac.uk/medicine/study/postgraduate/masters-programmes/mres-biomedical-research/</a>
M.Sc. Business Analytics	Imperial College Business School	2	<a href="https://wwwf.imperial.ac.uk/business-school/programmes/msc-business-analytics/entry-requirements/">https://wwwf.imperial.ac.uk/business-school/programmes/msc-business-analytics/entry-requirements/</a>
M.sc. Computing (Machine Learning)	Imperial College London	2	<a href="http://www.imperial.ac.uk/computing/prospective-students/courses/pg/specialist-degrees/ml/">http://www.imperial.ac.uk/computing/prospective-students/courses/pg/specialist-degrees/ml/</a>
M.Sc. Data Science	King's College London	2	<a href="http://www.kcl.ac.uk/study/postgraduate/taught-courses/data-science-msc.aspx">http://www.kcl.ac.uk/study/postgraduate/taught-courses/data-science-msc.aspx</a>
M.Sc. Networking & Data Communications	Kingston University	2	<a href="http://www.kingston.ac.uk/postgraduate-course/networking-data-communications-msc/">http://www.kingston.ac.uk/postgraduate-course/networking-data-communications-msc/</a>
M.Sc. Data Science	Lancaster University	2	<a href="http://www.lancaster.ac.uk/dsi/education/data-science-msc/">http://www.lancaster.ac.uk/dsi/education/data-science-msc/</a>
M.Sc. Data Analytics	London Metropolitan University	2	<a href="http://www.londonmet.ac.uk/courses/postgraduate/data-analytics---msc/">http://www.londonmet.ac.uk/courses/postgraduate/data-analytics---msc/</a>
M.Sc. Cyber Security and Big Data	Loughborough University	2	<a href="http://www.lborolondon.ac.uk/study/masters-programmes/cyber-security-big-data/">http://www.lborolondon.ac.uk/study/masters-programmes/cyber-security-big-data/</a>
M.Sc. Data Science	Middlesex University London	2	<a href="http://www.mdx.ac.uk/courses/postgraduate/msc-by-research-data-science">http://www.mdx.ac.uk/courses/postgraduate/msc-by-research-data-science</a>

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Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Data Analytics	Nottingham Trent University	2	<a href="https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/science-technology/pg/2017-18/data-analytics-for-business">https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/science-technology/pg/2017-18/data-analytics-for-business</a>
M.Sc. Business Analytics	Queen Mary University of London	2	<a href="http://www.qmul.ac.uk/postgraduate/taught/coursefinder/courses/182316.html">http://www.qmul.ac.uk/postgraduate/taught/coursefinder/courses/182316.html</a>
M.Sc. Network Science	Queen Mary University of London	2	<a href="http://www.qmul.ac.uk/postgraduate/taught/coursefinder/courses/143463.html">http://www.qmul.ac.uk/postgraduate/taught/coursefinder/courses/143463.html</a>
M.Sc. Applied Sports Performance Analysis	Robert Gordon University	2	<a href="http://www.rgu.ac.uk/laboratory-biomedical-and-sports-sciences/study-options/postgraduate/applied-sports-performance-analysis/">http://www.rgu.ac.uk/laboratory-biomedical-and-sports-sciences/study-options/postgraduate/applied-sports-performance-analysis/</a>
M.Sc. Data Science	Robert Gordon University	2	<a href="http://www.rgu.ac.uk/computing/study-options/postgraduate/masters-in-data-science/">http://www.rgu.ac.uk/computing/study-options/postgraduate/masters-in-data-science/</a>
M.Sc. Data Science and Analytics	Royal Holloway University of London	2	<a href="https://www.royalholloway.ac.uk/courses/2017/postgraduate/computer-science/data-science-and-analytics.aspx">https://www.royalholloway.ac.uk/courses/2017/postgraduate/computer-science/data-science-and-analytics.aspx</a>
MSc Machine Learning	Royal Holloway University of London	2	<a href="https://www.royalholloway.ac.uk/courses/2017/postgraduate/computer-science/machine-learning.aspx">https://www.royalholloway.ac.uk/courses/2017/postgraduate/computer-science/machine-learning.aspx</a>
M.Sc. Health Data Science	Swansea University	2	<a href="http://www.swansea.ac.uk/postgraduate/taught/medicine/msc-health-data-science/">http://www.swansea.ac.uk/postgraduate/taught/medicine/msc-health-data-science/</a>
MSc Machine Learning	University College London	2	<a href="http://www.cs.ucl.ac.uk/degrees/msc_ml/">http://www.cs.ucl.ac.uk/degrees/msc_ml/</a>
M.Sc. Advanced Computing	University of Bristol	2	<a href="http://www.bristol.ac.uk/study/postgraduate/2017/eng/msc-adv-computing/">http://www.bristol.ac.uk/study/postgraduate/2017/eng/msc-adv-computing/</a>
M.Sc. Advanced Computing - Machine Learning and Data Mining	University of Bristol	2	<a href="http://www.bristol.ac.uk/study/postgraduate/2017/eng/msc-adv-computing-machine-learning/">http://www.bristol.ac.uk/study/postgraduate/2017/eng/msc-adv-computing-machine-learning/</a>
M.Sc. Database Systems	University of Central Lancashire	2	<a href="https://www.thecompleteuniversityguide.co.uk/courses/HC4353866">https://www.thecompleteuniversityguide.co.uk/courses/HC4353866</a>
M.Sc. Data Science	University of Dundee	2	<a href="http://www.computing.dundee.ac.uk/study/courses/16">http://www.computing.dundee.ac.uk/study/courses/16</a>
M.Sc. DATA SCIENCE, TECHNOLOGY AND INNOVATION	The University of Edinburgh	2	<a href="http://www.ed.ac.uk/data-science/postgraduate/programme">http://www.ed.ac.uk/data-science/postgraduate/programme</a>
EPSRC CDT Data Science	University of Edinburgh	2	<a href="http://web.inf.ed.ac.uk/infweb/student-services/cdt/ds/overview">http://web.inf.ed.ac.uk/infweb/student-services/cdt/ds/overview</a>
M.Sc. High Performance Computing with Data Science	The University of Edinburgh	2	<a href="http://www.ed.ac.uk/studying/postgraduate/degrees/index.php?r=site/view&amp;id=871">http://www.ed.ac.uk/studying/postgraduate/degrees/index.php?r=site/view&amp;id=871</a>
M.Sc. Statistics with	University of	2	<a href="http://www.ed.ac.uk/math/mc/mc/stats/stats-data-">http://www.ed.ac.uk/math/mc/mc/stats/stats-data-</a>

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Name of Programme	University	Duration (Semesters)	Link to website
Data Science	Edinburgh		science/
M.Sc. Data Science	University of Essex	2	<a href="http://www.essex.ac.uk/courses/details.aspx?mastercourse=PG00742&amp;subgroup=1">http://www.essex.ac.uk/courses/details.aspx?mastercourse=PG00742&amp;subgroup=1</a>
M.Sc. Data Science	University of Glasgow	2	<a href="http://www.gla.ac.uk/postgraduate/taught/datascience/">http://www.gla.ac.uk/postgraduate/taught/datascience/</a>
M.Sc. Big Data and Business Intelligence	University of Greenwich	2	<a href="https://www.gre.ac.uk/pg/ach/cgdbdi">https://www.gre.ac.uk/pg/ach/cgdbdi</a>
M.Sc. Enterprise Systems and Database Administration	University of Greenwich	2	<a href="https://www.gre.ac.uk/pg/ach/esdw">https://www.gre.ac.uk/pg/ach/esdw</a>
M.Sc. Advanced Computer Science (Data Analytics)	University of Leeds	2	<a href="https://engineering.leeds.ac.uk/courses/PG/G314/advanced-computer-science-data-analytics">https://engineering.leeds.ac.uk/courses/PG/G314/advanced-computer-science-data-analytics</a>
M.Sc. Business Analytics and Decision Sciences	University of Leeds	2	<a href="http://business.leeds.ac.uk/masters/msc-business-analytics-and-decision-sciences/">http://business.leeds.ac.uk/masters/msc-business-analytics-and-decision-sciences/</a>
M.Sc. Advanced Computer Science with Internet Economics	University of Liverpool	2	<a href="https://www.liverpool.ac.uk/study/postgraduate/taught/advanced-computer-science-with-internet-economics-msc/overview/">https://www.liverpool.ac.uk/study/postgraduate/taught/advanced-computer-science-with-internet-economics-msc/overview/</a>
M.Sc. Big Data and High Performance Computing	University of Liverpool	2	<a href="https://www.liverpool.ac.uk/study/postgraduate/taught/big-data-msc/entry-requirements/">https://www.liverpool.ac.uk/study/postgraduate/taught/big-data-msc/entry-requirements/</a>
M.Sc. Big Data Analytics	University of Liverpool	2	<a href="http://edu.university-liverpool-online.com/global/programmes/information-technology/msc-in-big-data-analytics?comm_code=4427200">http://edu.university-liverpool-online.com/global/programmes/information-technology/msc-in-big-data-analytics?comm_code=4427200</a>
M.Sc. Databases and Web-based Systems	University of Salford	2	<a href="http://www.salford.ac.uk/pgt-courses/databases-and-web-based-systems">http://www.salford.ac.uk/pgt-courses/databases-and-web-based-systems</a>
M.Sc. Telecommunication Networks	University of Salford	2	<a href="http://www.salford.ac.uk/pgt-courses/data-telecommunication-networks">http://www.salford.ac.uk/pgt-courses/data-telecommunication-networks</a>
M.Sc. Data Analytics	University of Sheffield	2	<a href="http://www.sheffield.ac.uk/dcs/postgraduate-taught/data-analytics#tab00">http://www.sheffield.ac.uk/dcs/postgraduate-taught/data-analytics#tab00</a>
M.Sc. Data Science	University of Southampton	2	<a href="http://www.ecs.soton.ac.uk/programmes/msc-data-science">http://www.ecs.soton.ac.uk/programmes/msc-data-science</a>
M.Sc. Statistics	University of Southampton	2	<a href="http://www.southampton.ac.uk/math/postgraduate/taught_courses/msc_in_statistics.page#overview">http://www.southampton.ac.uk/math/postgraduate/taught_courses/msc_in_statistics.page#overview</a>
M.Sc. Applied Statistics and Datamining	University of St Andrews	2	<a href="https://www.st-andrews.ac.uk/study/pg/taught-programmes/applied-statistics-datamining/#525082">https://www.st-andrews.ac.uk/study/pg/taught-programmes/applied-statistics-datamining/#525082</a>
M.Sc. Data Science for Business	University of Stirling	2	<a href="https://www.stir.ac.uk/postgraduate/programme-information/prospectus/management/data-science-for-business/">https://www.stir.ac.uk/postgraduate/programme-information/prospectus/management/data-science-for-business/</a>

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Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Data Science	University of Sussex	2	<a href="http://www.sussex.ac.uk/study/masters/2016/1665/34077">http://www.sussex.ac.uk/study/masters/2016/1665/34077</a>
M.Sc. Big Data and Digital Futures	University of Warwick	2	<a href="http://www2.warwick.ac.uk/fac/cross_fac/cim/study/msc-big-data-digital-futures/">http://www2.warwick.ac.uk/fac/cross_fac/cim/study/msc-big-data-digital-futures/</a>
M.Sc. Big Data and Quantitative Methods	University of Warwick	2	<a href="http://www2.warwick.ac.uk/study/postgraduate/courses/depts/politics/taught/bigdata/">http://www2.warwick.ac.uk/study/postgraduate/courses/depts/politics/taught/bigdata/</a>
M.Sc. Data Analytics	University of Warwick	2	<a href="http://www2.warwick.ac.uk/fac/sci/dcs/admissions/postgraduate/da/">http://www2.warwick.ac.uk/fac/sci/dcs/admissions/postgraduate/da/</a>
B.Sc. Data Science	University of Warwick	2	<a href="http://www2.warwick.ac.uk/fac/sci/statistics/courses/datsci">http://www2.warwick.ac.uk/fac/sci/statistics/courses/datsci</a>
M.Sc. Predictive Modelling	University of Warwick	2	<a href="http://www2.warwick.ac.uk/fac/sci/wcpm/">http://www2.warwick.ac.uk/fac/sci/wcpm/</a>
M.Sc. Business Intelligence and Analytics	University of Westminster	2	<a href="https://www.westminster.ac.uk/courses/subjects/business-information-systems/postgraduate-courses/next-year/september/full-time/business-intelligence-and-analytics-msc">https://www.westminster.ac.uk/courses/subjects/business-information-systems/postgraduate-courses/next-year/september/full-time/business-intelligence-and-analytics-msc</a>

**Table 4. France**

Name of Programme	University	Duration (Semesters)	Link to website
Big Data Analytics	Data ScienceTech Institute	4	<a href="https://www.datasciencetech.institute/master-programme-msc-executive-big-data-analyst/">https://www.datasciencetech.institute/master-programme-msc-executive-big-data-analyst/</a>
Data Scientist Designer	Data ScienceTech Institute	4	<a href="https://www.datasciencetech.institute/msc-applied-data-science-and-big-data/">https://www.datasciencetech.institute/msc-applied-data-science-and-big-data/</a>
Data Sciences and Business Analytics	Ecole Centrale Paris (ECP)	4	<a href="http://www.ecp.fr/home/Formations/MSc_in_Data_Science_and_Business_Analytics">http://www.ecp.fr/home/Formations/MSc_in_Data_Science_and_Business_Analytics</a>
Information Technology for Business Intelligence	Ecole Centrale Paris (ECP)	4	<a href="http://www.ecp.fr/Information-Technologies-for-Business-Intelligence">http://www.ecp.fr/Information-Technologies-for-Business-Intelligence</a>
Big Data: Data Analytics, Data Science, Data Architecture	EISTI Graduate Engineering School	4	<a href="http://eisti.fr/en/international/international-master-big-data">http://eisti.fr/en/international/international-master-big-data</a>
Business Analytics: Architecture Data Exploration and Optimization (ADEO)	EISTI Graduate Engineering School	4	<a href="https://eisti.fr/sites/default/files/master_adeo_bigdata.compressed.pdf">https://eisti.fr/sites/default/files/master_adeo_bigdata.compressed.pdf</a>

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Statistics for Smart Data	ENSAI	4	<a href="http://www.ensai.fr/admission/master-big-data.html">http://www.ensai.fr/admission/master-big-data.html</a>
Computer Science	ESIEE Paris	4	<a href="http://www.esiee.fr/en/programmes/international-masters/master-of-computer-science-diplome-ingenieur">http://www.esiee.fr/en/programmes/international-masters/master-of-computer-science-diplome-ingenieur</a>
Data Science and Engineering	EURECOM	4	<a href="http://www.eurecom.fr/en/teaching/masters-degrees/master-data-science">http://www.eurecom.fr/en/teaching/masters-degrees/master-data-science</a>
M.Sc. Industrial and Applied Mathematics	Grenoble Institute of Technology	4	<a href="http://www.grenoble-inp.fr/masters-/master-of-science-in-industrial-and-applied-mathematics-msiam-595008.kjsp#page-presentation">http://www.grenoble-inp.fr/masters-/master-of-science-in-industrial-and-applied-mathematics-msiam-595008.kjsp#page-presentation</a>
M.Sc. Informatics	Grenoble Institute of Technology	4	<a href="http://mosig.imag.fr/MainEn/HomePage">http://mosig.imag.fr/MainEn/HomePage</a>
Big Data for Business	HEC Paris School of Management	4	<a href="http://www.hec.edu/Masters-programs/Master-s-Programs/Dual-Degree-Programs-with-Partner-Institutions/MSc-Big-Data-for-Business-Joint-Degree-with-Ecole-Polytechnique/Key-Features">http://www.hec.edu/Masters-programs/Master-s-Programs/Dual-Degree-Programs-with-Partner-Institutions/MSc-Big-Data-for-Business-Joint-Degree-with-Ecole-Polytechnique/Key-Features</a>
Big Data Analytics for Business	IESEG School of Management	4	<a href="http://www.ieseg.fr/en/programs/msc-big-data/">http://www.ieseg.fr/en/programs/msc-big-data/</a>
Erasmus Mundus Master Course in DMKM	Polytech'Nantes - Polytechnic Graduate School of Nantes University	4	<a href="http://web.polytech.univ-nantes.fr/1382971372533/1/fiche___formation/">http://web.polytech.univ-nantes.fr/1382971372533/1/fiche___formation/</a>
Digital Business	SKEMA Business School	4	<a href="http://skemabs.activetrail.biz/msc-studyportals">http://skemabs.activetrail.biz/msc-studyportals</a>
Computer Science and Decision Systems	TELECOM Bretagne	4	<a href="http://www.telecom-bretagne.eu/studies/msc/computer-science-decision-systems">http://www.telecom-bretagne.eu/studies/msc/computer-science-decision-systems</a>
Big Data, Large Scale Data Management and Analysis	TELECOM Paris Tech	4	<a href="http://www.telecom-paristech.fr/formation-continue/masteres-specialises/big-data/programme.html">http://www.telecom-paristech.fr/formation-continue/masteres-specialises/big-data/programme.html</a>
Automatic Data Processing	TELECOM SudParis	4	<a href="https://www.telecom-sudparis.eu/p_fr_formationen_post-grade_MSc_1179.html?idm=25">https://www.telecom-sudparis.eu/p_fr_formationen_post-grade_MSc_1179.html?idm=25</a>
Information Technology for Business Intelligence	Université François Rabelais Tours (UFRT)	4	<a href="http://international.univ-tours.fr/offre-de-formation/programme-erasmus-mundus-de-master-information-technology-for-business-intelligence-it4bi--255689.kjsp?RH=ACCUEIL_FR">http://international.univ-tours.fr/offre-de-formation/programme-erasmus-mundus-de-master-information-technology-for-business-intelligence-it4bi--255689.kjsp?RH=ACCUEIL_FR</a>
Machine Learning and Data Mining	University Jean Monnet	4	<a href="http://mldm.univ-st-etienne.fr">http://mldm.univ-st-etienne.fr</a>

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Erasmus Mundus Master Course in DMKM	University Lumiere	4	<a href="https://www.univ-nantes.fr/1382971372533/1/fiche_formation/&amp;RH=1305560156696">https://www.univ-nantes.fr/1382971372533/1/fiche_formation/&amp;RH=1305560156696</a>
EIT ICT Data Science Masters Programm	Universite Nice Sophia Antipolis	4	<a href="http://informatique.polytechnice.fr/jahia/Jahia/SI/formation/EITDigital">http://informatique.polytechnice.fr/jahia/Jahia/SI/formation/EITDigital</a>
M.Sc. Mathematical Engineering	Université de Nice - Sophia Antipolis	4	<a href="http://math.unice.fr/departement/master-2-im-msc">http://math.unice.fr/departement/master-2-im-msc</a>
Data Mining, Analytics and Knowledge Discovery	Universite Paris 13	4	<a href="https://www.univ-paris13.fr">https://www.univ-paris13.fr</a>
Erasmus Mundus Master Course in DMKM	University Pierre et Marie Curie	4	<a href="http://www.upmc.fr/en/international/international_programs/international_programs_for_master_degrees/data_mining_and_knowledge_management.html">http://www.upmc.fr/en/international/international_programs/international_programs_for_master_degrees/data_mining_and_knowledge_management.html</a>

**Table 5. Germany**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Data Science	Albstadt-Sigmaringen University	6	<a href="http://hs-albsig.de/studium/datascience/Seiten/Startseite-Data-Science.aspx">http://hs-albsig.de/studium/datascience/Seiten/Startseite-Data-Science.aspx</a>
Computational and Data Science	Friedrich-Schiller University	4	<a href="http://www.cds.uni-jena.de">http://www.cds.uni-jena.de</a>
Applied Statistics	Georg-August-Universität Göttingen	4	<a href="https://www.uni-goettingen.de/de/420878.html">https://www.uni-goettingen.de/de/420878.html</a>
Applied Computer Science M. Sc.	Hochschule Heidelberg	4	<a href="https://www.hochschule-heidelberg.de/de/studium/master/applied-computer-science/">https://www.hochschule-heidelberg.de/de/studium/master/applied-computer-science/</a>
Data Engineering	Jacobs University Bremen	4	<a href="http://www.jacobs-university.de/study/graduate/programs/data-engineering">http://www.jacobs-university.de/study/graduate/programs/data-engineering</a>
Information Engineering and Computer Science	Rhine-Waal University of Applied Science	4	<a href="https://www.hochschule-rhein-waal.de/en/faculties/communication-and-environment/degree-programmes/master-degree-programmes/information">https://www.hochschule-rhein-waal.de/en/faculties/communication-and-environment/degree-programmes/master-degree-programmes/information</a>
Laser and Photonics	Ruhr University of Bochum	4	<a href="http://studienangebot.ruhr-uni-bochum.de/de/laser-and-photonics/master-1-fach">http://studienangebot.ruhr-uni-bochum.de/de/laser-and-photonics/master-1-fach</a>



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EIT ICT Data Science Masters Programm	Technische Universität Berlin (TUB)	4	<a href="http://www.dima.tu-berlin.de/menue/teaching/international_programs/eit_digital_data_science_master/">http://www.dima.tu-berlin.de/menue/teaching/international_programs/eit_digital_data_science_master/</a>
Information Technology for Business Intelligence	Technische Universität Berlin (TUB)	4	<a href="https://www.dima.tu-berlin.de/menue/teaching/international_programs/erasmus_mundus_it4bi_master/">https://www.dima.tu-berlin.de/menue/teaching/international_programs/erasmus_mundus_it4bi_master/</a>
M.Sc. Web Engineering	Technische Universität Chemnitz	4	<a href="https://www.tu-chemnitz.de/international/incoming/studiengaenge/ma_web_eng.html">https://www.tu-chemnitz.de/international/incoming/studiengaenge/ma_web_eng.html</a>
Data Science M. Sc.	Technical University Dortmund	4	<a href="http://www.statistik.tu-dortmund.de/703.html">http://www.statistik.tu-dortmund.de/703.html</a>
Computer Science in Applications	TU Kaiserslautern	4	<a href="http://www.cs.uni-kl.de/en/studium/studiengaenge/bm-ai/ai-infman/">http://www.cs.uni-kl.de/en/studium/studiengaenge/bm-ai/ai-infman/</a>
Data Engineering and Analytics	Technical University of Munich	4	<a href="https://www.in.tum.de/en/for-prospective-students/masters-programs/data-engineering-and-analytics.html">https://www.in.tum.de/en/for-prospective-students/masters-programs/data-engineering-and-analytics.html</a>
Applied Data Warehousing	University of Applied Sciences Darmstadt	4	<a href="https://www.fbi.h-da.de/organisation/personen/cordes-michael-oehring-holger-rein-matthias.html">https://www.fbi.h-da.de/organisation/personen/cordes-michael-oehring-holger-rein-matthias.html</a>
M.Sc. Software Engineering	University of Augsburg	4	<a href="https://swt.informatik.uni-augsburg.de/elite/se/">https://swt.informatik.uni-augsburg.de/elite/se/</a>
Computer and Information Science	University of Konstanz	4	<a href="https://www.informatik.uni-konstanz.de/en/studies/master-of-science/">https://www.informatik.uni-konstanz.de/en/studies/master-of-science/</a>
Social and Economic Data Analysis	University of Konstanz	4	<a href="https://www.wiwi.uni-konstanz.de/studium/master-of-science/social-and-economic-data-analysis/">https://www.wiwi.uni-konstanz.de/studium/master-of-science/social-and-economic-data-analysis/</a>
Management and Data Science	University of Luneburg	4	<a href="http://www.leuphana.de/graduate-school/master/studienangebot/management-data-science.html">http://www.leuphana.de/graduate-school/master/studienangebot/management-data-science.html</a>
M.Sc. Computational Science and Engineering	University of Ulm	4	<a href="https://www.uni-ulm.de/mawi/fakultaet/studium-und-lehre/studiengaenge/computational-science-and-engineering/master/#">https://www.uni-ulm.de/mawi/fakultaet/studium-und-lehre/studiengaenge/computational-science-and-engineering/master/#</a>

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Table 6. Italy

Name of Programme	University	Duration (Semesters)	Link to website
PhD Computer Science and Engineering	University of Bologna	6	<a href="http://www.unibo.it/en/teaching/phd/2014-2015/computer-science-engineering-en">http://www.unibo.it/en/teaching/phd/2014-2015/computer-science-engineering-en</a>
M.Sc. DATA SCIENCE	Bologna Business School	1	<a href="http://bolognabusinessschool.com/hp/master-fulltime/master-in-data-science-2/">http://bolognabusinessschool.com/hp/master-fulltime/master-in-data-science-2/</a>
M.Sc. Computer Science	University of Bozen-Bolzano	4	<a href="https://www.unibz.it/en/faculties/computer-science/master-computer-science/">https://www.unibz.it/en/faculties/computer-science/master-computer-science/</a>
M.Sc. Computer Science	Ca' Foscari University of Venice		<a href="http://www.unive.it/pag/19976/">http://www.unive.it/pag/19976/</a>
Data Science for Complex Economic Systems	Collegio Carlo Alberto	2	<a href="http://www.madas.carloalberto.org">http://www.madas.carloalberto.org</a>
M.Sc. Data science for management	Universita Cattolica del Sacro Cuore	1	<a href="http://milano.unicatt.it/master/data-science-for-management-2016#content">http://milano.unicatt.it/master/data-science-for-management-2016#content</a>
Erasmus Mundus Master Course in DMKM	University of Eastern Piedmont Amedeo Avogadro	4	<a href="http://www.unipmn.it/default.aspx">http://www.unipmn.it/default.aspx</a>
M.Sc. BIG DATA MANAGEMENT	LUISS Business School	2	<a href="http://businessschool.luiss.it/mabda">http://businessschool.luiss.it/mabda</a>
M.Sc. Business Intelligence and Big Data Analytics	University of Milan Bicocca	2	<a href="http://www.crisp-org.it/bimaster/">http://www.crisp-org.it/bimaster/</a>
M.Sc. BIG DATA ANALYTICS & SOCIAL MINING	University of Pisa	2	<a href="http://masterbigdata.it/en">http://masterbigdata.it/en</a>

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EIT ICT Data Science Masters Programm	Universidad Politecnica de Madrid	4	<a href="http://www.fi.upm.es/?id=masterdatascience">http://www.fi.upm.es/?id=masterdatascience</a>
Data Science	University of Rome - Tor Vergata		<a href="http://web.uniroma2.it/module/name/Content/newlang/italiano/action/showpage/navpath/HOM/content_id/22631/section_id/4433">http://web.uniroma2.it/module/name/Content/newlang/italiano/action/showpage/navpath/HOM/content_id/22631/section_id/4433</a>
M.Sc. Data Science	Sapienza Universita di Roma		<a href="http://en.uniroma1.it/node/13659">http://en.uniroma1.it/node/13659</a>
Stochastics and Data Science	University of Torino	4	<a href="http://www.master-sds.unito.it/do/home.pl">http://www.master-sds.unito.it/do/home.pl</a>

**Table 7. Netherlands**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Business Analytics	Vrije Universiteit Amsterdam	4	<a href="http://masters.vu.nl/en/programmes/business-analytics/index.aspx">http://masters.vu.nl/en/programmes/business-analytics/index.aspx</a>
M.Sc. Big Data & Business Analytics	University of Amsterdam	4	<a href="http://abs.uva.nl/programmes/mba/mba/mba/content/folder-3/mba-big-data.html">http://abs.uva.nl/programmes/mba/mba/mba/content/folder-3/mba-big-data.html</a>
Computer Science: Data Science & Technology	Delft University of Technology	4	<a href="http://www.tudelft.nl/en/study/master-of-science/master-programmes/computer-science/the-data-science-technology-track/">http://www.tudelft.nl/en/study/master-of-science/master-programmes/computer-science/the-data-science-technology-track/</a>
Artificial Intelligence	University of Amsterdam	4	<a href="http://gss.uva.nl/future-msc-students/information-sciences/content26/artificial-intelligence.html">http://gss.uva.nl/future-msc-students/information-sciences/content26/artificial-intelligence.html</a>
M.Sc. Data Science in Engineering	University of Technology Eindhoven	4	<a href="https://www.tue.nl/en/education/tue-graduate-school/masters-programs/data-science-in-engineering/?utm_source=StudyPortals+&amp;utm_medium=premium+listing+&amp;utm_term=SMT+DSE&amp;utm_content=EN&amp;utm_campaign=StudyPortals#top">https://www.tue.nl/en/education/tue-graduate-school/masters-programs/data-science-in-engineering/?utm_source=StudyPortals+&amp;utm_medium=premium+listing+&amp;utm_term=SMT+DSE&amp;utm_content=EN&amp;utm_campaign=StudyPortals#top</a>

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EIT ICT Data Science Masters Programme	Eindhoven University of Technology	4	<a href="https://www.tue.nl/en/university/departments/mathematics-and-computer-science/education/graduate-programs/masters-programs/eit-data-science/">https://www.tue.nl/en/university/departments/mathematics-and-computer-science/education/graduate-programs/masters-programs/eit-data-science/</a>
Data Science and Entrepreneurship	Data Science and Entrepreneurship	4	<a href="http://www.iads.nl/study-program-master-data-science-entrepreneurship.html">http://www.iads.nl/study-program-master-data-science-entrepreneurship.html</a>
M.Sc. Computer Science and Advanced Data Analytics	Universiteit Leiden	4	<a href="http://en.mastersinleiden.nl/programmes/computer-science-and-advanced-data-analytics/en/introduction">http://en.mastersinleiden.nl/programmes/computer-science-and-advanced-data-analytics/en/introduction</a>
M.Sc: Computing Science	Radboud University	4	<a href="http://www.ru.nl/english/education/masters/computing-science/?utm_medium=profielpagina&amp;utm_term=computing-science&amp;utm_campaign=mastersportal&amp;utm_source=mastersportal.eu">http://www.ru.nl/english/education/masters/computing-science/?utm_medium=profielpagina&amp;utm_term=computing-science&amp;utm_campaign=mastersportal&amp;utm_source=mastersportal.eu</a>
Business Information Management	Erasmus University Rotterdam	2	<a href="https://www.rsm.nl/master/msc-programmes/msc-business-information-management/overview/">https://www.rsm.nl/master/msc-programmes/msc-business-information-management/overview/</a>
M.Sc. Business Analytics and Operations Research	Tilburg University	2	<a href="https://www.tilburguniversity.edu/education/masters-programmes/business-analytics-and-operations-research/">https://www.tilburguniversity.edu/education/masters-programmes/business-analytics-and-operations-research/</a>
MSc Data Science: Business and Governance	Tilburg University	2	<a href="https://www.tilburguniversity.edu/education/masters-programmes/data-science-business-and-governance/">https://www.tilburguniversity.edu/education/masters-programmes/data-science-business-and-governance/</a>
Marketing Analytics	Tilburg University	2	<a href="https://www.tilburguniversity.edu/education/masters-programmes/marketing-analytics/">https://www.tilburguniversity.edu/education/masters-programmes/marketing-analytics/</a>
M.Sc. Computer Science	University of Twente	4	<a href="https://www.utwente.nl/en/education/master/programmes/computer-science/">https://www.utwente.nl/en/education/master/programmes/computer-science/</a>
M.Sc. BUSINESS INFORMATION TECHNOLOGY	University of Twente	4	<a href="https://www.utwente.nl/en/education/master/programmes/business-information-technology/">https://www.utwente.nl/en/education/master/programmes/business-information-technology/</a>

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M.Sc. Computing Science	Utrecht University	4	<a href="https://www.uu.nl/masters/en/computing-science?utm_source=studyportals&amp;utm_medium=cpc&amp;utm_term=computing-science&amp;utm_campaign=2015mp.uu.dcm">https://www.uu.nl/masters/en/computing-science?utm_source=studyportals&amp;utm_medium=cpc&amp;utm_term=computing-science&amp;utm_campaign=2015mp.uu.dcm</a>
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**Table 8. Spain**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Data Science	Universitat Autònoma de Barcelona	2	<a href="http://www.barcelonagse.eu/study/masters-programs/data-science">http://www.barcelonagse.eu/study/masters-programs/data-science</a>
M.Sc. Big Data Solutions	Barcelona Technology School	2	<a href="http://barcelonatechnologyschool.com/master-in-big-data-and-innovation-analytics/">http://barcelonatechnologyschool.com/master-in-big-data-and-innovation-analytics/</a>
Big Data Analytics	Carlos III University of Madrid	2	<a href="https://www.uc3m.es/ss/Satellite/Postgrado/en/Detalle/Estudio C/1371210340413/1371219633369/Master in Big Data Analytics">https://www.uc3m.es/ss/Satellite/Postgrado/en/Detalle/Estudio C/1371210340413/1371219633369/Master in Big Data Analytics</a>
Business Intelligence e Innovación Tecnológica	EAE Business School	2	<a href="http://www.eae.es/full-time/master-business-intelligence-innovacion-tecnologica/presentacion">http://www.eae.es/full-time/master-business-intelligence-innovacion-tecnologica/presentacion</a>
M.Sc. Business Intelligence and Big Data	EOI Business School	2	<a href="https://www.eoi.es/es/cursos/17256/master-en-business-intelligence-y-big-data-online">https://www.eoi.es/es/cursos/17256/master-en-business-intelligence-y-big-data-online</a>
Big Data and Business Intelligence	Next International Business School		<a href="http://www.nextibs.com/programas/masters/master-in-big-data-and-business-intelligence/">http://www.nextibs.com/programas/masters/master-in-big-data-and-business-intelligence/</a>
IT Strategic Management	Pompeu Fabra University	2	<a href="http://www.barcelonaschoolofmanagement.upf.edu/en/master-of-science-in-management-specialization-in-it-management">http://www.barcelonaschoolofmanagement.upf.edu/en/master-of-science-in-management-specialization-in-it-management</a>
EIT ICT Data Science Masters Programm	Universidad Politécnica de Madrid	4	<a href="http://www.fi.upm.es/?id=masterdatascience">http://www.fi.upm.es/?id=masterdatascience</a>

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Erasmus Mundus Master Course in DMKM	Technical University of Catalonia (UPC)	4	<a href="http://www.upc.edu">http://www.upc.edu</a>
Information Technology for Business Intelligence	Technical University of Catalonia (UPC)	4	<a href="http://www.fib.upc.edu/en/studies/masters/other-masters/master-information-technology-business-intelligence">http://www.fib.upc.edu/en/studies/masters/other-masters/master-information-technology-business-intelligence</a>
M.Sc. Big Data Science	UIC Barcelona		<a href="http://www.uic.es/en/estudis-uic/ade/executive-masters-degree-big-data-science/basic-information">http://www.uic.es/en/estudis-uic/ade/executive-masters-degree-big-data-science/basic-information</a>

**Table 9. Sweden**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Computer Science	Blekinge Institute of Technology	4	<a href="https://www.bth.se/eng/masters/master-of-science-programme-in-computer-science/">https://www.bth.se/eng/masters/master-of-science-programme-in-computer-science/</a>
Business Intelligence	Dalarna University	4	<a href="http://www.du.se/en/Study-at-DU/Programmes/Business-Intelligence-/">http://www.du.se/en/Study-at-DU/Programmes/Business-Intelligence-/</a>
Cloud Computing and Services	EIT Digital Master School	4	<a href="https://masterschool.eitdigital.eu/programmes/ccs/?utm_source=studyportals&amp;utm_medium=button&amp;utm_campaign=ccs">https://masterschool.eitdigital.eu/programmes/ccs/?utm_source=studyportals&amp;utm_medium=button&amp;utm_campaign=ccs</a>
EIT ICT Data Science Masters Programm	KTH Stockholm	4	<a href="https://www.kth.se/en">https://www.kth.se/en</a>
M.Sc. Pervasive Computing and Communications for Sustainable Development	Luleå University of Technology		<a href="https://www.ltu.se/edu/program/TMDHA/TMDHA-Distribuerade-datorsystem-for-hallbar-utveckling-master-1.94732?l=en">https://www.ltu.se/edu/program/TMDHA/TMDHA-Distribuerade-datorsystem-for-hallbar-utveckling-master-1.94732?l=en</a>
Computational Science	Uppsala University	4	<a href="http://www.uu.se/en/admissions/master/selma/program/?pkod=TBV2M&amp;lasar=17/18">http://www.uu.se/en/admissions/master/selma/program/?pkod=TBV2M&amp;lasar=17/18</a>

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M.Sc. Data Science (60ECTS)	University of Skövde	2	<a href="http://www.his.se/en/Prospective-student/education/Masters-Studies/Data-Science-Masters-Programme-60-ECTS/">http://www.his.se/en/Prospective-student/education/Masters-Studies/Data-Science-Masters-Programme-60-ECTS/</a>
M.Sc. Data Science(120ECTS)	University of Skövde	4	<a href="http://www.his.se/en/Prospective-student/education/Masters-Studies/Data-Science-Masters-programme-120-ECTS/">http://www.his.se/en/Prospective-student/education/Masters-Studies/Data-Science-Masters-programme-120-ECTS/</a>

**Table 10. Finland**

Name of Programme	University	Duration (Semesters)	Link to website
Computer, Communication and Information Science	Aalto University	4	<a href="http://www.aalto.fi/en/studies/education/programme/computer_communication_information_sciences_master/">http://www.aalto.fi/en/studies/education/programme/computer_communication_information_sciences_master/</a>
M.Sc. Governance of Digitalization	Åbo Akademi University	2	<a href="http://www.abo.fi/ansok/en/Content/Document/document/36144">http://www.abo.fi/ansok/en/Content/Document/document/36144</a>
M.Sc. Information Technology	Åbo Akademi University	4	<a href="http://www.abo.fi/ansok/en/Content/Document/document/36149">http://www.abo.fi/ansok/en/Content/Document/document/36149</a>
Algorithms, Data Analytics and Machine Learning	University of Helsinki	4	<a href="https://www.cs.helsinki.fi/en/prospective/algorithms-and-machine-learning">https://www.cs.helsinki.fi/en/prospective/algorithms-and-machine-learning</a>
M.Sc. Computer Science	University of Helsinki	4	<a href="https://www.helsinki.fi/en/masters-programme-in-computer-science-master-of-science-2-years/1.2.246.562.17.11276448609">https://www.helsinki.fi/en/masters-programme-in-computer-science-master-of-science-2-years/1.2.246.562.17.11276448609</a>
Computational Big Data Analytics	Tampere University	4	<a href="http://www.uta.fi/admissions/mdp-computational-big-data-analytics">http://www.uta.fi/admissions/mdp-computational-big-data-analytics</a>
Information Technology	Tampere University of Technology	4	<a href="http://www.tut.fi/en/admissions/masters-studies-in-english/information-technology/index.htm">http://www.tut.fi/en/admissions/masters-studies-in-english/information-technology/index.htm</a>

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**Table 11. Ireland**

Name of Programme	University	Duration (Semesters)	Link to website
Data Science and Analytics	University College Cork	2	<a href="http://www.ucc.ie/en/compsci/postgraduatecourses/analyticsdisc/">http://www.ucc.ie/en/compsci/postgraduatecourses/analyticsdisc/</a>
Computing (MCM)	Dublin City University	2	<a href="http://www.computing.dcu.ie/postgraduate/mcm/msc-computing-mcm">http://www.computing.dcu.ie/postgraduate/mcm/msc-computing-mcm</a>
Applied Computing for Technologists	Dublin Institute of Technology	2	<a href="https://www.dit.ie/catalogue/Programmes/Details/DT090?tab=Overview">https://www.dit.ie/catalogue/Programmes/Details/DT090?tab=Overview</a>
M.Sc. Data Analytics	University College Dublin	6	<a href="http://www.ucd.ie/mathstat/study/graduatestudy/dataanalytics/">http://www.ucd.ie/mathstat/study/graduatestudy/dataanalytics/</a>
M.Sc. Computer Science	National University of Ireland	2	<a href="https://www.nuigalway.ie/courses/taught-postgraduate-courses/msc-in-computer-science-data-analytics.html">https://www.nuigalway.ie/courses/taught-postgraduate-courses/msc-in-computer-science-data-analytics.html</a>

**Table 12. Belgium**

Name of Programme	University	Duration (Semesters)	Link to website
Computer Science: Data Science	University of Antwerpen	4	<a href="https://www.uantwerpen.be/en/education/education-and-training/master-computerscience-datascience-n/programme-info/">https://www.uantwerpen.be/en/education/education-and-training/master-computerscience-datascience-n/programme-info/</a>
Marketing Analysis	University Ghent	2	<a href="http://www.mma.ugent.be">http://www.mma.ugent.be</a>
Data Mining	University Ghent	2	<a href="http://www.datamining.ugent.be">http://www.datamining.ugent.be</a>
Artificial Intelligence	University of Leuven	2	<a href="https://onderwijsaanbod.kuleuven.be/opleidingen/e/CQ_5026_8936.htm#activetab=diploma_omschrijving">https://onderwijsaanbod.kuleuven.be/opleidingen/e/CQ_5026_8936.htm#activetab=diploma_omschrijving</a>
Information Technology for Business Intelligence	Université Libre de Bruxelles (ULB)	4	<a href="http://www.ulb.ac.be/international/Politique-Internationale-Erasmus-Mundus.html">http://www.ulb.ac.be/international/Politique-Internationale-Erasmus-Mundus.html</a>



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**Table 13. Denmark**

Name of Programme	University	Duration (Semesters)	Link to website
Data Engineering	Aalborg University	4	<a href="http://www.en.aau.dk/education/master/data-engineering">http://www.en.aau.dk/education/master/data-engineering</a>
M.Sc. Data Science	DTU	4	<a href="http://www.dtu.dk/english/education/msc/programmes/digital_media_engineering#description">http://www.dtu.dk/english/education/msc/programmes/digital_media_engineering#description</a>
OMICS	University of Southern Denmark	4	<a href="http://www.sdu.dk/en/Uddannelse/Kandidat/Omics">http://www.sdu.dk/en/Uddannelse/Kandidat/Omics</a>

**Table 14. Romania**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Scientific Calculus and Software Engineering	Alexandru Ioan Cuza University of Iasi	4	<a href="https://www.uaic.ro/en/studies/faculties/faculty-mathematics/">https://www.uaic.ro/en/studies/faculties/faculty-mathematics/</a>
M.Sc. Computer Science	Babeş-Bolyai University	4	<a href="http://www.cs.ubbcluj.ro/education/academic-programmes/masters-programmes/intelligent-systems-programme-profile/">http://www.cs.ubbcluj.ro/education/academic-programmes/masters-programmes/intelligent-systems-programme-profile/</a>
Erasmus Mundus Master Course in DMKM	Technical University of Bucharest	4	<a href="http://utcb.ro/utcb/index_en.html">http://utcb.ro/utcb/index_en.html</a>

**Table 15. Portugal**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Advanced Analytics	Universidade Nova de Lisboa	4	<a href="http://www.novaims.unl.pt/maa">http://www.novaims.unl.pt/maa</a>
M.Sc. DATA ANALYTICS	University of Porto		<a href="http://info.fep.up.pt/en/gca/index.php?id=186">http://info.fep.up.pt/en/gca/index.php?id=186</a>

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**Table 16. Poland**

Name of Programme	University	Duration (Semesters)	Link to website
Information Technology	University of Information Technology and Management	4	<a href="http://kandydaci.wsiz.rzeszow.pl/en/academic-programmes/graduate-programmes/information-technology/about-this-course">http://kandydaci.wsiz.rzeszow.pl/en/academic-programmes/graduate-programmes/information-technology/about-this-course</a>

**Table 17. Norway**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Modelling and Data Analysis	University of Oslo	4	<a href="http://www.uio.no/english/studies/programmes/modelling-data-analysis/">http://www.uio.no/english/studies/programmes/modelling-data-analysis/</a>

**Table 18. Switzerland**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Digital Humanities	ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE		<a href="http://master.epfl.ch/digitalhumanities#faq-688246">http://master.epfl.ch/digitalhumanities#faq-688246</a>

**Table 19. Czech Republic**

Name of Programme	University	Duration (Semesters)	Link to website
Computer Science - Software and Data Engineering	Charles University	4	<a href="http://www.mff.cuni.cz/admission/curriculum/">http://www.mff.cuni.cz/admission/curriculum/</a>

**Table 20. Greece**

Name of Programme	University	Duration (Semesters)	Link to website
Business Analytics	Athens University of Economics and Business	2	<a href="http://analytics.aueb.gr">http://analytics.aueb.gr</a>

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**Table 21. Austria**

Name of Programme	University	Duration (Semesters)	Link to website
Data Studies	Danube University Krems	5	<a href="http://www.donau-uni.ac.at/en/studium/data-studies/index.php">http://www.donau-uni.ac.at/en/studium/data-studies/index.php</a>

**Table 22. Bulgaria**

Name of Programme	University	Duration (Semesters)	Link to website
Data Science	Varna Free University "Chernorizets Hrabar"	2	<a href="http://datascience.vfu.bg">http://datascience.vfu.bg</a>

**Table 23. Hungary**

Name of Programme	University	Duration (Semesters)	Link to website
Analytics Business Intelligence	Budapest University of Technology and Economics (BME)		<a href="https://www.tmit.bme.hu/internet_english?language=en">https://www.tmit.bme.hu/internet_english?language=en</a>

**Table 24. Estonia**

Name of Programme	University	Duration (Semesters)	Link to website
Computer Science	University of Tartu	4	<a href="http://compsci.cs.ut.ee">http://compsci.cs.ut.ee</a>

**Table 25. Lithuania**

Name of Programme	University	Duration (Semesters)	Link to website
M.Sc. Applied Informatics	Vytautas Magnus university	4	<a href="http://www.vdu.lt/en/studies/degree-studies/master-ma/applied-informatics/">http://www.vdu.lt/en/studies/degree-studies/master-ma/applied-informatics/</a>

Table 26. Cyprus

Name of Programme	University	Duration (Semesters)	Link to website
Intelligent Systems	University of Cyprus	4	<a href="https://www.cs.ucy.ac.cy/index.php/education/postgrad/mis">https://www.cs.ucy.ac.cy/index.php/education/postgrad/mis</a>

## 4 Conclusion and Roadmap

Stage 1a of the BDV Education Hub activities resulted in the collection of a catalogue of 191 Masters programmes related to Big Data Value in Europe. This catalogue will form the basis for the online version (Stage 1b) of the BDV Education hub, which will go live as part of the BDVe portal and marketplace.

Based on this catalogue of programmes, the Education Hub will be populated with more information and related educational programmes, according to the below roadmap:

- Stage 2: Augmenting the BDV Education Hub with PhD programmes and prominent professional education and training programmes, as well as incorporate further updates of Stage 1 information (by June 2018)
- Stage 3: The Education Hub will feature knowledge profiles about the educators' skills and research institutions' profiles, as well as incorporate further updates of Stage 2 information (after June 18)