BDV

Data Science Analytics Badge

Academic Level

Badge Issuing Application

for the

<Program Name>

at

<Institution Name>

<Location>

<Date>

CONFIDENTIAL

The information provided in this application is for the confidential use of the BDVe project and its authorized agents, and will not be disclosed to third parties without the authorization of the institution concerned, except for its use in summary data which is not identifiable to a specific institution.

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1. INTRODUCTION

This document provides a template to present evidence to show that an academic program both teaches and evaluates the skills needed to meet the requirements of the **Academic Level** of the **BDV Data Science Analytics Badge**. Once complete, this document will contain some basic information about the program to be evaluated as well as specific details regarding how the skills required by the badge are acquired by the program's students.

Further information and detailed instructions for completing this application can be found in the *BDV Data Science Analytics Badge Academic Level INFORMATION AND GUIDELINES FOR APPLICANTS* document available on the badge program's web page: http://www.big-data-value.eu/skills/skills-recognition-program/

The skills required for the Data Analytics Badge are listed in Table 1.

Data Science Analytics Badge v1-0 – Academic Level
Required skills
DSA.1. Identify existing requirements to choose and execute the most appropriate data discovery techniques to solve a problem depending on the nature of the data and the goals to be achieved.
DSA.2. Select the most appropriate techniques to understand and prepare data prior to modeling to deliver insights.
DSA.3. Assess, adapt, and combine data sources to improve analytics.
DSA.4. Use the most appropriate metrics to evaluate and validate results, proposing new metrics for new applications if required.
DSA.5. Design and evaluate analysis tools to discover new relations in order to improve decision-making.
DSA.6. Use visualization techniques to improve the presentation of the results of a data science project in any of its phases.

Table 1. BDV Data Science Analytics Badge Skills

2. GENERAL INFORMATION

A. Contact Information

Please provide the following information for the primary contact person of the program applying for the badge.

- Name:
- Position:
- Mailing address:
- Telephone number:
- E-mail address:

☐ By checking this box, the contact person agrees to the use of this contact information by members of the BDVe project to send communications related to the badge issuing application process and if the application is accepted, he/she also agrees to its use for future communications by the BDVe related to the badge program. This data will be stored confidentially and will not be used for other purposes or disclosed to others without the previous consent of the contact person. The contact person can withdraw this consent or modify this data at any time by contacting the BDVe project.

B. Program Background

Please provide a brief history of the program. Be sure to include the following information in this section:

- A link to the program's web page
- A list of all national and international accreditations obtained by the program with the dates received.
- The number of students to successfully complete the program in each of the last five years.
- How this program is taught: traditional lectures/laboratories, online learning etc.

C. Options

List and briefly describe any specializations, tracks, concentrations, etc. included in the program.

3. ACQUISITION OF THE REQUIRED SKILLS

Complete the following tables with references to and descriptions of the evidence submitted to show the acquisition of the corresponding skills. When describing the evidence, please be specific regarding which part of the evidence file provides evidence of the corresponding skill. For example, if the evidence file contains an exam please state which question or questions provide evidence. It is possible that the same evidence file provides evidences for several skills. Each evidence file should be included with the submitted application.

In the case of optional courses/activities, indicate possible itineraries in the comments section of each of the tables stating clearly each of the minimum sets of evidences needed to demonstrate the acquisition of the skill.

DSA.1. Identify existing requirements to choose and execute the most appropriate data discovery techniques to solve a problem depending on the nature of the data and the goals to be achieved					
Name of the course or activity	Optional/ Mandatory	The average number of hours that students spend in the course/activity acquiring the skill	Evidence used to evaluate the acquisition of the skill (exam, assignment, …)	Name of the evidence file	The minimum level required to demonstrate the acquisition of the skill
Course 1		X hours	Exam 1, questions 2-3		
			Assignment 4		
			…		
			Add as many rows as needed		
Course 2		Y hours			
add as many rows as needed					
Minimum number of hours that the student dedicates to acquiring the skill					
Comments (optional)					

DSA.2. Select the most appropriate techniques to understand and prepare data prior to modeling to deliver insights					
Name of the course or activity	Optional/ Mandatory	The average number of hours that students spend in the course/activity acquiring the skill	Evidence used to evaluate the acquisition of the skill (exam, assignment, …)	Name of the evidence file	The minimum level required to demonstrate the acquisition of the skill
Course 1		X hours	Exam 1, questions 2-3		
			Assignment 4		
			…		
			Add as many rows as needed		
Course 2		Y hours			
add as many rows as needed					
Minimum number of hours that the student dedicates to acquiring the skill					
Comments (optional)					

DSA.3. Assess, adapt, and combine data sources to improve analytics					
Name of the course or activity	Optional/ Mandatory	The average number of hours that students spend in the course/activity acquiring the skill	Evidence used to evaluate the acquisition of the skill (exam, assignment, …)	Name of the evidence file	The minimum level required to demonstrate the acquisition of the skill
Course 1		X hours	Exam 1, questions 2-3		
			Assignment 4		

			…		
			Add as many rows as needed		
Course 2		Y hours			
add as many rows as needed					
Minimum number of hours that the student dedicates to acquiring the skill					
Comments (optional)					

DSA.4. Use the most appropriate metrics to evaluate and validate results, proposing new metrics for new applications if required					
Name of the course or activity	Optional/ Mandatory	The average number of hours that students spend in the course/activity acquiring the skill	Evidence used to evaluate the acquisition of the skill (exam, assignment, …)	Name of the evidence file	The minimum level required to demonstrate the acquisition of the skill
Course 1		X hours	Exam 1, questions 2-3		
			Assignment 4		
			…		
			Add as many rows as needed		
Course 2		Y hours			
add as many rows as needed					

Minimum number of hours that the student dedicates to acquiring the skill	
Comments (optional)	

DSA.5. Design and evaluate analysis tools to discover new relations in order to improve decision-making					
Name of the course or activity	Optional/ Mandatory	The average number of hours that students spend in the course/activity acquiring the skill	Evidence used to evaluate the acquisition of the skill (exam, assignment, …)	Name of the evidence file	The minimum level required to demonstrate the acquisition of the skill
Course 1		X hours	Exam 1, questions 2-3		
			Assignment 4		
			…		
			Add as many rows as needed		
Course 2		Y hours			
add as many rows as needed					
Minimum number of hours that the student dedicates to acquiring the skill					
Comments (optional)					

DSA.6. Use visualization techniques to improve the presentation of the results of a data science project in any of its phases					
Name of the course or activity	Optional/ Mandatory	The average number of hours that students spend in the course/activity acquiring the skill	Evidence used to evaluate the acquisition of the skill (exam, assignment, …)	Name of the evidence file	The minimum level required to demonstrate the acquisition of the skill
Course 1		X hours	Exam 1, questions 2-3		
			Assignment 4		
			…		
			Add as many rows as needed		
Course 2		Y hours			
add as many rows as needed					
Minimum number of hours that the student dedicates to acquiring the skill					
Comments (optional)					

☐ By checking this box and in the case that the application **is accepted**, the applicant agrees to the use of:

- The name and URL of the applicant's institution and its icons
- The name and URL of the applicant's degree program and its icons

in web pages, presentations, and other public documents as being an issuer of the Academic Level of the BDV Data Science Analytics Badge.

I, the undersigned, hereby state that the information contained in this application is to the best of my knowledge correct and complete.

Place	
Date (dd-mm-yyyy)	
Name of the applicant organization	
Name of legal representative	
Signature	