**Documentation: Compliance with specific admission requirements for Data Science**

*Upload this document with the rest of your application for the MSc programme in Data Science at ITU.*

**PART ONE**

**All applicants must fill in part one.**

|  |  |
| --- | --- |
| Applicant |  |
| Name |  |
| Date of birth |  |
| Name of bachelor programme |  |
| Name of university where you studied the bachelor programme |  |

**Programmes that automatically meet the specific requirements:**ITU compiled a list of Danish bachelor programmes that automatically meet the specific requirements for MSc in Data Science:

* Data Science (AAU - Aalborg University)
* Data Science (AU - Aarhus University)
* Machine Learning and Data Science (KU – University of Copenhagen)
* Artificial Intelligence and Data (DTU – Technical University of Denmark)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **YES** | |  | |  | |  | | --- | | **NO** | |  | |

Mark if you have one of the degrees above:

If you mark ‘no’, please fill in part two, see below.

**PART TWO**

**This part must be completed by applicants who do not automatically meet the admission requirements.**

## **Please, read this instruction carefully before you complete the form below.**

**Requirements:**

All topics must be covered.

**How to complete the form:**

For each requirement, please provide the activity or activities where you achieved the requirement, along with the number of ECTS earned for each course or activity.

We will only consider activities for which you have earned ECTS or other university-level credits.

**Required additional information:**

You must also include the following documents with your application, as we cannot process your application without them:

* **Course Descriptions:** Attach the official course descriptions for all the courses you have listed. Links to these descriptions are acceptable. If a course description in English or one of the Nordic languages no longer exists, you must provide a short description in English of what the course covered (max ½ page).
* **Project Description:** If you met some of the requirements through a project, please include a brief description of the project (maximum ½ page).
* **ITU Courses:** If you completed some of the courses at ITU, you are not required to include course descriptions for those specific courses.
* **Conversion to ECTS:** If your credits are not in the ECTS format, you must provide an official explanation of how these credits convert into ECTS.

In some cases, your university may be able to help you with an official conversion of your current courses into ECTS. If your university cannot help, you must instead enclose an official document stating how many credits covers a full-time semester at your home university, and how many years your programme takes to complete by being a full-time student.

Please proceed with your application, ensuring that you meet these criteria and provide the requested information and documentation together with this form in one pdf (size limit 10mb).

**We will only handle your application if all documentation is enclosed.**

|  |  |
| --- | --- |
| **Requirements:** |  |
| **1: Linear algebra** (vectors and matrices, vector, and matrix operations incl.  eigenvalues and eigenvectors) | 5 |
| I meet this requirement by the following course(s)/project(s): | ECTS |
| -  -  - |  |
| **2: Algorithms and data structures** (big-O notation, basic analysis of algorithm correctness and complexity, hashing, basic data structures including graphs) | 5 |
| I meet this requirement by the following course(s)/project(s): | ECTS |
| -  -  - |  |
| **3: Introduction to machine learning** (e.g. linear regression, logistic regression, kernel methods, neural networks, unsupervised learning) | 5 |
| I meet this requirement by the following course(s)/project(s): | ECTS |
| -  -  - |  |
| **4: Probability theory and statistics** (e.g., random variables, joint and conditional  distributions, independence, estimation) | 10 |
| I meet this requirement by the following course(s)/project(s): | ECTS |
| -  -  - |  |
| **5: Introduction to programming** (at least Python or similar) | 10 |
| I meet this requirement by the following course(s)/project(s): | ECTS |
| -  -  - |  |
| **6: Introduction to database design and systems** (design and use of relational databases, basic data analytics, basic SQL) | 5 |
| I meet this requirement by the following course(s)/project(s): | ECTS |
| -  -  - |  |