Template for covering admission requirements for MSc in Data Science

Is your bachelor programme on the List of Danish bachelor programmes that meet the programme-specific admission requirements to Data Science?

Yes: ☐   No: ☐

Use this form to document how the admission requirements have been covered through your bachelor courses, if your bachelor programme is not on the list of bachelor programmes which meet the programme-specific admission requirements.

This template should be uploaded together with the rest of your application for the MSc in Data Science at the IT-University of Copenhagen.

Applicant	
Name	
Date of birth	
Name of bachelor programme	

How is the required knowledge covered?

Topics to be covered	Bachelor programme	
Topics covered in course	Where/how was it covered?	ECTS
Linear algebra (vectors and matrices, vector and matrix operations incl. eigenvalues and eigenvectors)		
Algorithms and data structures (big-O notation, basic analysis of algorithm correctness and complexity, hashing, basic data structures including graphs)		
Introduction to machine learning (e.g. linear regression, logistic regression, kernel methods, neural networks, unsupervised learning)		
Probability theory and statistics (e.g., random variables, joint and conditional distributions, independence, estimation)		
Introduction to programming (at least Python or similar)		
Introduction to database design and systems (design and use of relational databases, basic data analytics, basic SQL)		

All topics must be covered. We only consider courses for which you have earned ECTS credits/other credits. Topics

must be covered in your qualifying bachelor degree or courses from other bachelor or master studies.

Documentation:

You must enclose documentation of the following:

- Course descriptions or short description of projects (max ½ page), including the number of credits awarded (optional for projects: a link to your project code repository).
- Conversion to ECTS (if the course is not in ECTS).

You must enclose documentation with this template in one pdf (size limit 10mb). If there no longer exists a course description in English or one of the Nordic languages, you must shortly explain what the course covered (max ½ page). **You do not need to send us ITU-Diplomas or course descriptions for ITU-courses.**

We will only handle your application if all documentation is attached.