COURSE DETAIL

INTRODUCTION TO DATA SCIENCE

Country
Denmark

Host Institution
University of Copenhagen

Program(s)
University of Copenhagen

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
105

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO DATA SCIENCE

UCEAP Transcript Title
INTRO DATA SCIENCE

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

The purpose of the course is to introduce non-Computer Science students to probabilistic data modelling and the most common techniques from statistical machine learning and data mining. It provides a working knowledge of basic data modelling and data analysis using fundamental machine learning techniques. Topics include: foundations of statistical learning, probability theory; classification methods, such as Linear models, K-Nearest Neighbor; regression methods, such as Linear regression; Bayesian Statistics; clustering; dimensionality reduction and visualization techniques such as principal component analysis (PCA).

Language(s) of Instruction
English

Host Institution Course Number
NDAK16003U

Host Institution Course Title
INTRODUCTION TO DATA SCIENCE

Host Institution Campus

Host Institution Faculty
Science

Host Institution Degree
Master

Host Institution Department
Computer Science

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