# **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

**Print**