COURSE DETAIL

NATURAL LANGUAGE PROCESSING
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 134
UCEAP Course Suffix
UCEAP Official Title NATURAL LANGUAGE PROCESSING
UCEAP Transcript Title NATURAL LANG PROCES
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course introduces the fundamentals of natural language processing (NLP), i.e. computational models of language and their applications to text. This course combines machine learning (ML), including fundamental formalisms and algorithms, with a strong hands-on experience. The course covers topics including the NLP tasks of language modeling, text classification, semantics, information extraction, parsing, pragmatics, machine translation, summarization, and answering questions. Methods covered include text classification, structured prediction, representation and deep learning, conditional random fields, and beam search. Students learn efficient implementations and the relationship between NLP tasks. This course also explores the themes of discriminative and generative learning, and various ways of obtaining supervision for training statistical NLP models. Students apply the skills and concepts learned in this course to other fields including data science, political science research, and gene sequencing.

Language(s) of Instruction
English

Host Institution Course Number
NDAK18000U

Host Institution Course Title
NATURAL LANGUAGE PROCESSING (NLP)

Host Institution Course Details

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science

Course Last Reviewed

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