COURSE DETAIL

DATA PRIVACY
Country Korea, South
Host Institution Yonsei University
Program(s) Yonsei University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 130
UCEAP Course Suffix
UCEAP Official Title DATA PRIVACY
UCEAP Transcript Title DATA PRIVACY
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course explores advanced mathematical problems and theoretical approaches in deep learning with a strong emphasis on privacy-related challenges. Key topics include: Differential privacy, with a focus on its application in federated learning and mechanisms to ensure robust privacy guarantees in distributed settings; Privacy in generative diffusion models, including the use of stochastic differential equations and innovative techniques to safeguard private data in generative processes; Privacy considerations in large language models (LLMs), examining methods for mitigating data leakage, adversarial attacks, and ensuring compliance with differential privacy principles in training and inference.

Language(s) of Instruction
English

Host Institution Course Number
CAS4108

Host Institution Course Title
DATA PRIVACY

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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