Health Data Analytics: Machine Learning and Data Mining

HDAT9500  |  6 Units of Credit

Overview

This course will provide an introduction to data mining and machine learning techniques through a series of health applications. You will learn about the underlying supporting theory of these techniques, as well as gain the practical know-how required to effectively apply these techniques to new health data problems.

From electronical medical records, claims, registries, medical databases, and health digital data in general, healthcare organisations have a vast amount of data. Nonetheless, for this information to be useful, it needs to be enhanced by the power of data mining analytics and machine learning.

Data Mining can be defined as the discipline that merges methods coming from statistics, computer science and database analysis applied to large databases. Machine Learning—a subset of Data Mining—comprises a powerful and diverse set of techniques and algorithms used to discover patterns and relationships in (big) data with the final goal of creating knowledge from this data.
Faculty
Faculty of Medicine

School
School of Medical Sciences

Study Level
Postgraduate

Offering Terms
Term 2, Term 3

Campus
Kensington

Delivery Mode
Partially online

Indicative contact hours
3

Timetable
Visit timetable website for details
Conditions for Enrolment

HDAT9200 AND (HDAT9300 OR COMP9021)
Course Outline

To access course outline, please visit:

HDAT9500 Course Outline
Fees

Commonwealth Supported Students $1395
Domestic Students $3960
International Students $4890

DISCLAIMER
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179