COMP9501 - Machine Learning
Semester 1, 2023-24

This is a **Graduate Course**. MPhil/PhD students in the Department of Computer Science should read the Coursework Requirement.

<table>
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<tr>
<th>Instructor</th>
<th>Dr. J. Pan</th>
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**Syllabus**

This course introduces (1) the basic concepts of machine learning and core machine learning models and methods, including supervised learning, non-supervised learning, classification, and regression; (2) the machine learning pipeline including data gathering, preprocessing, visualization; selecting machine learning models and tuning hyper-parameters; training, validation, and testing; (3) case studies of machine learning applications including handling large datasets. The course consists of several assignments as well as a final project that lets students apply machine learning to their individual/group research projects.

### Topics

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### Pre-requisites

### Compatibility

### Instructor's web

https://sites.google.com/site/panjia

### Assessment

- In-course assessment:

### Timetable

**Teaching Period:** September 1, 2023 - November 30, 2023  
**Reading Week:** October 16, 2023 - October 21, 2023

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