FIT5201 - Data analysis algorithms

- The meeting is recorded
- Please mute yourself
- It would be great if you can show up in your camera
- Ask questions in the chat box
  - Will check regularly

FIT5201 - Data analysis algorithms

- Lecturer: Dr. Teresa Weiqing Wang
  - Email: Teresa.Wang@monash.edu;
  - Research interest: relational machine learning; entity modelling; network/graph analysis
  - Workload (math & programming)

FIT5201 - Data analysis algorithms

- Lecturer: Dr. Teresa Weiqing Wang
  - Supposed to be online followed by mixture mode
    - Will keep you posted
  - First 4 weeks will be delivered by Zoom
    - No official words about 4 weeks later
    - Both lecture and tutorial (one per week) are recorded
    - Lecture recording release: within 2 days after lecture
    - Tutorial recording release: on Friday or Saturday within the week
      - To encourage you to attend via Zoom

FIT5201 - Data analysis algorithms

- Consultation
  - Time and Zoom link will be released on Moodle
  - Via Zoom
  - Done one by one
    - Might need to wait in the waiting room if some one is already inside
  - Ask questions
    - Tutor first (via Zoom or consultation)

Unit introduction

- Fundamental concepts and theory in machine learning
- Relationships with other units
  - Applied data analysis
    - Blackbox
  - Data wrangling
    - Pre-process the data
- Good math and programming skills

Unit introduction

- Please Check your Monash emails and Moodle regularly and excuses related to not checking emails will not be accepted.
- Moodle
  - Course materials, online quiz, assignments, forums.
  - Assessments
    - Roughly, maximum 6 online quiz (9%, maximum 1 quiz every two weeks) + assignment 1 (25%, 5 weeks) + assignment 2 (16%, 5 weeks) + final exam (50%)

Time Table and Teaching Activities

Week	Activities	Assessment
1	Module 1 - The Elements of Machine Learning	
2	Module 1 - The Elements of Machine Learning	Online quiz 1 released and assessed
3	Module 2 - Linear Models for Regression	Assignment 1 released
4	Module 2 - Linear Models for Regression	Online quiz 2 released and assessed
5	Module 3 - Linear Models for Classification	
6	Module 3 - Linear Models for Classification	Online quiz 3 released and assessed
7	Module 4 - Latent Variable Models and EM	Assignment 1 due and Assignment 2 released
8	Module 4 - Latent Variable Models and EM	Online quiz 4 released and assessed
9	Module 5 - Neural Networks	
10	Module 5 - Neural Networks	Online quiz 5 released and assessed
11	Module 6 - Machine Learning for Big Data	Assignment 2 due
12	Module 6 - Machine Learning for Big Data	Online quiz 6 released and assessed

Unit introduction

- lecture structure
  - 6 modules
  - 2 week for each module
  - Activity
    - Lab
    - Download the zip file
    - Environment setup (do it prior to the tutorial)
  - Alexander content
    - Contain our major text book