## **CSC 461**

Machine Learning (Fall 2024) Lecture 01: Course Logistics

Prof. Marco Alvarez, University of Rhode Island

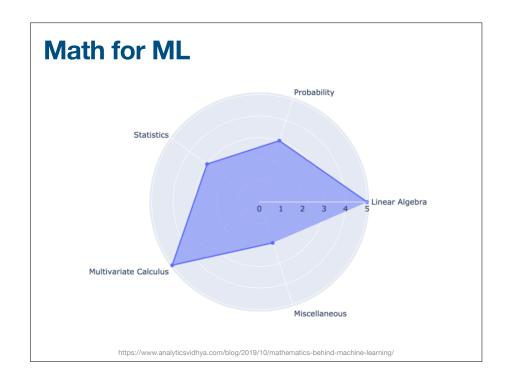
#### What is this course about?

- Understand how ML algorithms work
  - the learning problem and limitations
  - theoretical foundations of major techniques
- Be able to develop ML applications
  - · problem design, algorithm/platform choice
- Be able to read current papers

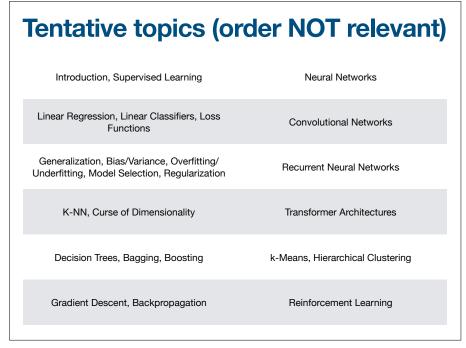
### Should I take this class?

- Requires more math than traditional CS courses
- Programming experience is required
- Less emphasis on 'how to use this library'
  - · more focus on understanding major algorithms
- High grades require high effort
  - · long and challenging assignments/exams

consider taking this course a later time if necessary







# **Course Organization**

#### **Course website**

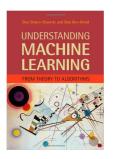
- URL
  - https://homepage.cs.uri.edu/~malvarez/teaching/csc-461
  - Syllabus
  - Schedule
  - Resources
  - · Projects/Workshop

### **Course information**

- Lectures
  - MWF 2-2:50p
- ▶ Team
  - · Marco Alvarez, Instructor
  - Jacob Dauphinais
  - Calvin Higgins
- Office Hours
  - TBA

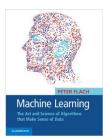
### **Recommended textbooks**

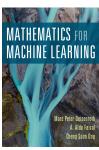












### **Grading**

- Homework assignments (15%)
  - programming and problem sets
- ► Midterm exam (30%)
  - Oct 11th
- Final exam (30%)
  - · Dec 16th
- Final project (25%)
  - · Last week of classes

### Coursework

- Homework assignments
  - · discussions and collaboration are allowed
    - · you must write your own code and solutions
  - late submissions NOT accepted
    - ample time given to complete (6-9 days)
    - start and submit early, leaving plenty of time for updates
- ► Exams
  - · in-person, open-book (printed materials only)
  - no electronic devices allowed during exams

#### Coursework

- Final project
  - team work (2-3 members) on real-world machine learning problems
  - deliverables
    - · progress report (mid October)
    - · final report (end of semester)
    - live presentation (ML Workshop end of semester)
  - outstanding projects will receive extra credit

### **Academic integrity**

- Assignments and projects
  - · collaborative discussions encouraged
  - sharing solutions, copying work, or using <u>uncredited</u> Algenerated content <u>prohibited</u>
- Al and LLMs
  - Al tools (e.g., ChatGPT, Gemini, Claude, Copilot) allowed as learning aids
  - · proper citation required for Al-assisted work
  - students responsible for understanding and verifying Algenerated content

### **Support tools**



Ed Discussion: Academic discussions, polls, quizzes.



**Gradescope:** Assignment submission and grading.



**Zoom:** Virtual office hours and remote collaboration.

### How to succeed?

- Attend all lectures
  - · lectures run synchronously and are not being recorded
  - · attendance usually correlates with higher grades
- Participate and think critically
  - · no laptops, no cellphones, unless taking notes
  - · use the online forum (Ed Discussion)
  - · use office hours regularly
- Work hard
  - · read textbooks and papers (schedule is ambitious)
  - work on your assignments (focus on excellence rather than just "getting a good grade")
    - · start working on assignments early
  - · this class is about developing highly-sought skills and competencies