





- Course slides shared online after each lecture through the course website: Click links in the "note" column of the "lecture plan" table.
- Attendance are taken in-person.
- Honor Code:
 - I request all students to read and pledge on the course honor code (found in Canvas: general information).
 - No assistive sites (chegg, numerade) No ChatGPT etc
 - Read it thoroughly and send your pledge on Canvas by Feb 4th. See instructions given in the Canvas link.

CSC872: PAMI – Kazunori Okada (C) 2025



Waitlisted For those who were waitlisted, we still have to see if we can accommodate you. Please stay tuned and keep attending lectures and do assignments. If I choose to add you with permit number after the 2nd week, automatic email should be sent to you with the permit number that you can use to add to this course. Hope to resolve this soon.







Course Overview	Classic At
Intro & Agent	(Al: Ch1-2)
Search Methods	(AI: Ch3-4)
 Logic and Inference 	(Al: Ch7-9) Paten Rocom
 Bayesian Framework 	(PR: Ch13-14 etc)
 Statistical Modeling 	(PR: Ch20 etc)
 Statistical Classification 	(PR: Ch3 etc)
Machine Learning	(ML: Ch18 etc)
 Supervised Classification 	(ML: Ch3 etc)
 Supervised Regression 	(ML: Ch3 etc)
Function Learning	(NN: Ch20 etc)
Deep Learning	(NN)
 Statistical Classification Machine Learning Supervised Classification Supervised Regression Function Learning Deep Learning 	(PR: Ch3 etc) (ML: Ch18 etc) (ML: Ch3 etc) (ML: Ch3 etc) (NN: Ch20 etc) (NN)







































































PF: Statistics

- Independent and Identically-Distributed (i.i.d.) Random Variable
 - Rolling a fair dice for instance.
 - If $x_1, x_2, x_3, \ldots, x_i, \ldots, x_k$ are i.i.d. of X then
 - $P(x_1, x_2, x_3, ..., x_i, ..., x_k) = P(X=x_1)P(X=x_2)...P(X=x_k)$

· Central limit theorem

- The sum of i.i.d. random variables with finite variance will be approximately normally (Gaussian) distributed as we go towards an infinite number of samples.
- A reason why you see a lot of Gaussians ...

CSC872: PAMI – Kazunori Okada (C) 2025