

Personal Coverage Notes on Machine Learning

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Preface(s)

0.1 Preface

In this personal coverage note, I try to record some thought processes and learning results I obtained from watching lectures and videos about numerous machine learning literature or applications. For now, the personal coverage note covers the following sections:

0.1.1 COMPSCI 189: Introduction to Machine Learning

This part covers the basic concepts of machine learning, including supervised learning, unsupervised learning, and focuses specifically on statistical learning techniques.

0.1.2 COMPSCI 285: Deep Reinforcement Learning

This part covers fundamental knowledge regarding deep reinforcement learning, sampled from Sergey Levine's Deep Reinforcement Learning lecture.

0.1.3 COMPSCI 294-158: Deep Unsupervised Learning

This part covers fundamental knowledge regarding deep unsupervised learning, sampled from Pieter Abbeel's Deep Unsupervised Learning lecture.

0.1.4 Mu Li's Videos on YouTube

This part covers the notes I took from watching Mu Li's videos on YouTube, which covers a wide range of topics in machine learning.

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Part I

COMPSCI 189: Introduction to Machine Learning

Chapter 1

Fundamentals of Machine Learning

Chapter Description.

1.1 section title

Section.

Theorem 1.1.1. Tested Theorem

I am the bone of my sword.

Definition 1.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 1.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 2

Linear Classifiers

Chapter Description.

2.1 section title

Section.

Theorem 2.1.1. Tested Theorem

I am the bone of my sword.

Definition 2.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 2.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 3

Gradient Descent

Chapter Description.

3.1 section title

Section.

Theorem 3.1.1. Tested Theorem

I am the bone of my sword.

Definition 3.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 3.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 4

Support Vector Machine

Chapter Description.

4.1 section title

Section.

Theorem 4.1.1. Tested Theorem

I am the bone of my sword.

Definition 4.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 4.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 5

Abstractions of Machine Learning

Chapter Description.

5.1 section title

Section.

Theorem 5.1.1. Tested Theorem

I am the bone of my sword.

Definition 5.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 5.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 6

Decision Theory, Bayesian Decision Rule

Chapter Description.

6.1 section title

Section.

Theorem 6.1.1. Tested Theorem

I am the bone of my sword.

Definition 6.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 6.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 7

Gaussian Discriminant Analysis and Maximum Likelihood Estimation

Chapter Description.

7.1 section title

Section.

Theorem 7.1.1. Tested Theorem

I am the bone of my sword.

Definition 7.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 7.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 8

Eigendecomposition of Symmetric Matrices

Chapter Description.

8.1 section title

Section.

Theorem 8.1.1. Tested Theorem

I am the bone of my sword.

Definition 8.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 8.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 9

Abstractions of a Regression Problem

Chapter Description.

9.1 section title

Section.

Theorem 9.1.1. Tested Theorem

I am the bone of my sword.

Definition 9.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 9.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 10

Newton's Method and Logistic Regression

Chapter Description.

10.1 section title

Section.

Theorem 10.1.1. Tested Theorem

I am the bone of my sword.

Definition 10.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 10.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 11

Statistical Justifications for Regressions

Chapter Description.

11.1 section title

Section.

Theorem 11.1.1. Tested Theorem

I am the bone of my sword.

Definition 11.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 11.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 12

Ridge Regression and Regularization

Chapter Description.

12.1 section title

Section.

Theorem 12.1.1. Tested Theorem

I am the bone of my sword.

Definition 12.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 12.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 13

Decision Trees

Chapter Description.

13.1 section title

Section.

Theorem 13.1.1. Tested Theorem

I am the bone of my sword.

Definition 13.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 13.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 14

The Kernel Trick

Chapter Description.

14.1 section title

Section.

Theorem 14.1.1. Tested Theorem

I am the bone of my sword.

Definition 14.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 14.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 15

Introduction to Neural Networks

Chapter Description.

15.1 section title

Section.

Theorem 15.1.1. Tested Theorem

I am the bone of my sword.

Definition 15.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 15.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 16

Tricks and Heuristics for Neural Networks

Chapter Description.

16.1 section title

Section.

Theorem 16.1.1. Tested Theorem

I am the bone of my sword.

Definition 16.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 16.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 17

Convolutional Neural Network

Chapter Description.

17.1 section title

Section.

Theorem 17.1.1. Tested Theorem

I am the bone of my sword.

Definition 17.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 17.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 18

Unsupervised Learning: PCA

Chapter Description.

18.1 section title

Section.

Theorem 18.1.1. Tested Theorem

I am the bone of my sword.

Definition 18.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 18.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 19

Unsupervised Learning: Clustering Algorithms

Chapter Description.

19.1 section title

Section.

Theorem 19.1.1. Tested Theorem

I am the bone of my sword.

Definition 19.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 19.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 20

Unsupervised Learning: Clustering Algorithms

Chapter Description.

20.1 section title

Section.

Theorem 20.1.1. Tested Theorem

I am the bone of my sword.

Definition 20.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 20.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 21

Geometry of High-Dimensional Space

Chapter Description.

21.1 section title

Section.

Theorem 21.1.1. Tested Theorem

I am the bone of my sword.

Definition 21.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 21.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 22

Learning Theory

Chapter Description.

22.1 section title

Section.

Theorem 22.1.1. Tested Theorem

I am the bone of my sword.

Definition 22.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 22.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 23

AdaBoost

Chapter Description.

23.1 section title

Section.

Theorem 23.1.1. Tested Theorem

I am the bone of my sword.

Definition 23.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 23.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 24

k-Nearest Neighbor Approaches

Chapter Description.

24.1 section title

Section.

Theorem 24.1.1. Tested Theorem

I am the bone of my sword.

Definition 24.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 24.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Part II

COMPSCI 285: Deep Reinforcement Learning

Chapter 25

Introduction to Deep Reinforcement Learning

Chapter Description.

25.1 section title

Section.

Theorem 25.1.1. Tested Theorem

I am the bone of my sword.

Definition 25.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 25.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 26

Supervised Learning of Behaviors

Chapter Description.

26.1 section title

Section.

Theorem 26.1.1. Tested Theorem

I am the bone of my sword.

Definition 26.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 26.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 27

Introduction to Reinforcement Learning

Chapter Description.

27.1 section title

Section.

Theorem 27.1.1. Tested Theorem

I am the bone of my sword.

Definition 27.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 27.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 28

Policy Gradients

Chapter Description.

28.1 section title

Section.

Theorem 28.1.1. Tested Theorem

I am the bone of my sword.

Definition 28.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 28.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 29

Actor-Critic Algorithms

Chapter Description.

29.1 section title

Section.

Theorem 29.1.1. Tested Theorem

I am the bone of my sword.

Definition 29.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 29.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 30

Value Function Methods

Chapter Description.

30.1 section title

Section.

Theorem 30.1.1. Tested Theorem

I am the bone of my sword.

Definition 30.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 30.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 31

Deep RL with Q-Functions

Chapter Description.

31.1 section title

Section.

Theorem 31.1.1. Tested Theorem

I am the bone of my sword.

Definition 31.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 31.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 32

Advanced Policy Gradients

Chapter Description.

32.1 section title

Section.

Theorem 32.1.1. Tested Theorem

I am the bone of my sword.

Definition 32.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 32.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 33

Optimal Control and Planning

Chapter Description.

33.1 section title

Section.

Theorem 33.1.1. Tested Theorem

I am the bone of my sword.

Definition 33.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 33.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 34

Model-Based Reinforcement Learning

Chapter Description.

34.1 section title

Section.

Theorem 34.1.1. Tested Theorem

I am the bone of my sword.

Definition 34.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 34.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 35

Model-Based Policy Learning

Chapter Description.

35.1 section title

Section.

Theorem 35.1.1. Tested Theorem

I am the bone of my sword.

Definition 35.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 35.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 36

Exploration (Part 1)

Chapter Description.

36.1 section title

Section.

Theorem 36.1.1. Tested Theorem

I am the bone of my sword.

Definition 36.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 36.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 37

Exploration (Part 2)

Chapter Description.

37.1 section title

Section.

Theorem 37.1.1. Tested Theorem

I am the bone of my sword.

Definition 37.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 37.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 38

Offline Reinforcement Learning (Part 1)

Chapter Description.

38.1 section title

Section.

Theorem 38.1.1. Tested Theorem

I am the bone of my sword.

Definition 38.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 38.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 39

Offline Reinforcement Learning (Part 2)

Chapter Description.

39.1 section title

Section.

Theorem 39.1.1. Tested Theorem

I am the bone of my sword.

Definition 39.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 39.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 40

Reinforcement Learning Theory

Chapter Description.

40.1 section title

Section.

Theorem 40.1.1. Tested Theorem

I am the bone of my sword.

Definition 40.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 40.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 41

Variational Inference and Generative Models

Chapter Description.

41.1 section title

Section.

Theorem 41.1.1. Tested Theorem

I am the bone of my sword.

Definition 41.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 41.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 42

Connection between Inference and Control

Chapter Description.

42.1 section title

Section.

Theorem 42.1.1. Tested Theorem

I am the bone of my sword.

Definition 42.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 42.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 43

Inverse Reinforcement Learning

Chapter Description.

43.1 section title

Section.

Theorem 43.1.1. Tested Theorem

I am the bone of my sword.

Definition 43.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 43.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 44

Reinforcement Learning with Sequence Models

Chapter Description.

44.1 section title

Section.

Theorem 44.1.1. Tested Theorem

I am the bone of my sword.

Definition 44.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 44.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 45

Meta-Learning and Transfer Learning

Chapter Description.

45.1 section title

Section.

Theorem 45.1.1. Tested Theorem

I am the bone of my sword.

Definition 45.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 45.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 46

Challenges and Open Problems

Chapter Description.

46.1 section title

Section.

Theorem 46.1.1. Tested Theorem

I am the bone of my sword.

Definition 46.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 46.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Part III

COMPSCI 294-158: Deep Unsupervised Learning

Chapter 47

Introduction to Deep Unsupervised Learning

Chapter Description.

47.1 section title

Section.

Theorem 47.1.1. Tested Theorem

I am the bone of my sword.

Definition 47.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 47.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 48

Autoregressive Models

Chapter Description.

48.1 section title

Section.

Theorem 48.1.1. Tested Theorem

I am the bone of my sword.

Definition 48.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 48.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 49

Flow Models

Chapter Description.

49.1 section title

Section.

Theorem 49.1.1. Tested Theorem

I am the bone of my sword.

Definition 49.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 49.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 50

Latent Variable Models

Chapter Description.

50.1 section title

Section.

Theorem 50.1.1. Tested Theorem

I am the bone of my sword.

Definition 50.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 50.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 51

GAN and Implicit Models

Chapter Description.

51.1 section title

Section.

Theorem 51.1.1. Tested Theorem

I am the bone of my sword.

Definition 51.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 51.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 52

Diffusion Models

Chapter Description.

52.1 section title

Section.

Theorem 52.1.1. Tested Theorem

I am the bone of my sword.

Definition 52.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 52.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 53

Self-Supervised Learning, Non-Generative Representation Learning

Chapter Description.

53.1 section title

Section.

Theorem 53.1.1. Tested Theorem

I am the bone of my sword.

Definition 53.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 53.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 54

Leage Language Models

Chapter Description.

54.1 section title

Section.

Theorem 54.1.1. Tested Theorem

I am the bone of my sword.

Definition 54.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 54.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 55

Video Generation

Chapter Description.

55.1 section title

Section.

Theorem 55.1.1. Tested Theorem

I am the bone of my sword.

Definition 55.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 55.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 56

Semi-Supervised Learning and Unsupervised Distribution Alignment

Chapter Description.

56.1 section title

Section.

Theorem 56.1.1. Tested Theorem

I am the bone of my sword.

Definition 56.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 56.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 57

Compression

Chapter Description.

57.1 section title

Section.

Theorem 57.1.1. Tested Theorem

I am the bone of my sword.

Definition 57.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 57.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 58

Multimodal Models

Chapter Description.

58.1 section title

Section.

Theorem 58.1.1. Tested Theorem

I am the bone of my sword.

Definition 58.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 58.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 59

Parallelization

Chapter Description.

59.1 section title

Section.

Theorem 59.1.1. Tested Theorem

I am the bone of my sword.

Definition 59.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 59.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 60

AI for Science (Gues Instructor)

Chapter Description.

60.1 section title

Section.

Theorem 60.1.1. Tested Theorem

I am the bone of my sword.

Definition 60.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 60.1.1: Rules?

I have created over a thousand blades.

Unknown to death, nor known to life.

Chapter 61

Neural Radiance Fields (Guest Instructor)

Chapter Description.

61.1 section title

Section.

Theorem 61.1.1. Tested Theorem

I am the bone of my sword.

Definition 61.1.1. Tested Theorem

Steel is my body and fire is my blood.

Example Question 61.1.1: Rules?

I have created over a thousand blades.

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Part IV

Mu Li's Videos on YouTube

Chapter 62

Note Name

Chapter Description.

62.1 section title

Section.

Theorem 62.1.1. Tested Theorem

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Revision Log

- August 22nd: Note is created