## Result of Start Text Detection Task

Job ID: 8262b45893b49c7b5e4b3b3a24f6f18b6e7015e05bdce4

Bucket Name: dlcontent567

Key Text Video Name: text.mp4

	,	
Text Information	Predictions	
Timestamp	0	
Detected text	deeplearningbook.org/co	nten
Text Type	LINE	
Confidence Level	97.2247	
Timestamp	0	
Detected text	+	
Text Type	LINE	
Confidence Level	97.76233	
Timestamp	0	
Detected text		
Text Type	LINE	
Confidence Level	93.5545	
Timestamp	0	
Detected text	-	
Text Type	LINE	
Confidence Level	80.446465	
Timestamp	0	
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.29674	

Timestamp	0	1
Detected text	+	1
Text Type	LINE	1
Confidence Level	95.89677	1
Timestamp	0	1
Detected text	Greedy layer-wise unsu	pervise
	pretraining relies on a s	ingle-l
	represen-	
Text Type	LINE	
Confidence Level	99.74283	]
		]
Timestamp	0	]
Detected text	tation learning algorithm	such
	RBM, a single-layer auto	e n c o d e
	sparse	
Text Type	LINE	1
Confidence Level	99.64867	]
		]
Timestamp	0	]
Detected text	coding model, or another	model
	learns latent representation	ns. Ea
	is	
Text Type	LINE	1
Confidence Level	99.83881	]
,		]
Timestamp	0	]
Detected text	pretrained using unsuperv	ised le
	taking the output of the p	reviou
Text Type	LINE	]
Confidence Level	99.89655	]
		1
Timestamp	0	1
		_

1	
and producing as output a n	e١
representation of the data, w	h
distribution (or	
LINE	
99.75256	
0	
its relation to other variables	, ;
categories to predict) is hopefu	ı I I
LINE	
99.776085	
0	
See algorithm 15.1 for a for	m a
description.	
LINE	
99.72337	
0	
Greedy layer-wise training pro	C
based on unsupervised criteria	h
LINE	
99.92023	
0	
been used to sidestep the diff	i c
LINE	
99.88813	
0	
deeplearningbook.org/content	S
WORD	
97 2247	
	representation of the data, we distribution (or LINE 99.75256  O its relation to other variables categories to predict) is hopeful LINE 99.776085  O See algorithm 15.1 for a for description.  LINE 99.72337  O Greedy layer-wise training probased on unsupervised criteria LINE 99.92023  O been used to sidestep the LINE 99.88813  O deeplearningbook.org/content

Timestamp	0
Detected text	+
Text Type	WORD
Confidence Level	97.76233
Timestamp	0
Detected text	
Text Type	WORD
Confidence Level	93.5545
Timestamp	0
Detected text	-
Text Type	WORD
Confidence Level	80.446465
Timestamp	0
Detected text	1 2 0 %
Text Type	WORD
Confidence Level	99.29674
Timestamp	0
Detected text	+
Text Type	WORD
Confidence Level	95.89677
Timestamp	0
Detected text	G r e e d y
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	layer-wise
Text Type	WORD

Confidence Level	99.77583
Timestamp	0
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.74043
Timestamp	0
Detected text	 pretraining
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	relies
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	o n
Text Type	WORD
Confidence Level	100
T' was a diament	
Timestamp	0
Detected text	a W O D D
Text Type  Confidence Level	WORD
Confidence Level	98.55616
Timestamp	0
Detected text	single-layer
Text Type	WORD
Confidence Level	100
Timestamp	0

Detected text	represen-
Text Type	WORD
Confidence Level	99.613045
Timestamp	0
Detected text	tation
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	learning
Text Type	WORD
Confidence Level	100
Confidence Level	100
Timestamp	0
Detected text	algorithm
Text Type	WORD
Confidence Level	99.93444
Timestamp	0
Detected text	s u c h
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	a s
	WORD
Text Type  Confidence Level	99.91669
Confidence Level	33.31003
Timestamp	0
Detected text	a n
Text Type	WORD
Confidence Level	99.54238
	<del> </del>

Timestamp	0
Detected text	RBM,
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	a
Text Type	WORD
Confidence Level	98.547615
Timestamp	0
Detected text	single-layer
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	a u t o e n c o d e r ,
Text Type	WORD
Confidence Level	99.17156
Timestamp	0
Detected text	a
Text Type	WORD
Confidence Level	98.77409
Timestamp	0
Detected text	sparse
Text Type	WORD
Confidence Level	99.89727
Timestamp	0
Detected text	coding
Text Type	WORD

Confidence Level	100
Timestamp	0
Detected text	m o d e l ,
Text Type	WORD
Confidence Level	99.96053
Timestamp	0
Detected text	o r
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	another
Text Type	WORD
Confidence Level	99.93024
Timestamp	0
Detected text	m o d e l
Text Type	WORD
Confidence Level	99.76239
Timestamp	0
Detected text	that
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	 learns
Text Type	WORD
Confidence Level	100
Confidence Level	100
Timestamp	0

Detected text	latent
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	representations.
Text Type	WORD
Confidence Level	98.74513
Timestamp	0
Detected text	Each
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	layer
Text Type	WORD
Confidence Level	99.98901
Timestamp	0
Detected text	is
Text Type	WORD
Confidence Level	99.67844
Timestamp	0
Detected text	pretrained
Text Type	WORD
Confidence Level	99.78841
Timestamp	0
Detected text	using
Text Type	WORD

Timestamp	0
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.77489
Timestamp	0
Detected text	learning,
Text Type	WORD
Confidence Level	99.43957
Timestemn	0
Timestamp	
Detected text	taking
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	output
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	o f
Text Type	WORD
Confidence Level	100
Confidence Level	100
Timestamp	0
Detected text	t h e
Text Type	WORD

Confidence Level	100
Timestamp	0
Detected text	previous
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	a n d
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	producing
Text Type	WORD
Confidence Level	99.9766
Timestamp	0
Detected text	a s
Text Type	WORD
Confidence Level	99.6621
Timestamp	0
Detected text	o u t p u t
Text Type	WORD
Confidence Level	100
Timestamp	0

Detected text	a
Text Type	WORD
Confidence Level	99.02293
Timestamp	0
Detected text	n e w
Text Type	WORD
Confidence Level	99.7878
Timestamp	0
Detected text	representation
Text Type	WORD
Confidence Level	99.23847
Timestamp	0
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	data,
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	whose
Text Type	WORD
Confidence Level	99.90563

Timestamp	0
Detected text	distribution
Text Type	WORD
Confidence Level	99.362015
Timestamp	0
Detected text	(or
Text Type	WORD
Confidence Level	99.8278
Timestamp	0
Detected text	its
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	relation
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	t o
Text Type	WORD
Confidence Level	99.63661
Timestamp	0
Detected text	o t h e r
Text Type	WORD
Confidence Level	99.98559
Timestamp	0
Detected text	variables,
Text Type	WORD

Confidence Level	99.195885
Timestamp	0
Detected text	s u c h
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	a s
Text Type	WORD
Confidence Level	99.65947
Timestamp	0
Detected text	categories
Text Type	WORD
Confidence Level	99.75095
Timestamp	0
Detected text	t o
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	predict)
Text Type	WORD
Confidence Level	99.3175
Timestamp	0
Detected text	i s
Text Type	WORD
Confidence Level	99.75269
Confidence Level	33.13203
Timestamp	0

Detected text	hopefully
Text Type	WORD
Confidence Level	99.88345
Timestamp	0
Detected text	simpler.
Text Type	WORD
Confidence Level	99.90696
Timestamp	0
Detected text	S e e
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	algorithm
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	15.1
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	for
Text Type	WORD
Confidence Level	99.87552
Timestamp	0
Detected text	a
Text Type	WORD
Confidence Level	98.4793

Timestamp	0
Detected text	formal
Text Type	WORD
Confidence Level	99.98013
Timestamp	0
Detected text	description.
Text Type	WORD
Confidence Level	99.728615
Timestamp	0
Detected text	G r e e d y
Text Type	WORD
Confidence Level	99.86033
Timestamp	0
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.88659
Timestamp	0
Detected text	training
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	procedures
Text Type	WORD
Confidence Level	99.86187
Timestamp	0
Detected text	b a s e d
Text Type	WORD

Confidence Level	100
Timestamp	0
Detected text	o n
Text Type	WORD
Confidence Level	99.59351
Timestamp	0
Detected text	unsupervised
Text Type	WORD
Confidence Level	100
Timestamp	0
Detected text	criteria
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	h a v e
Text Type	WORD
Confidence Level	1 0 0
Time actom n	
Timestamp	0
Detected text	long
Text Type	WORD
Confidence Level	1 0 0
Timestamp	0
Detected text	b e e n
Text Type	WORD
Confidence Level	99.72954
Timestamp	0

Detected text	u s e d	
Text Type	WORD	
Confidence Level	99.71264	
Timestamp	0	
Detected text	t o	
Text Type	WORD	
Confidence Level	99.9171	
Timestamp	0	
Detected text	sidestep	
Text Type	WORD	
Confidence Level	99.85764	
Timostomo	0	
Timestamp  Detected text	t h e	
	WORD	
Text Type  Confidence Level	100	
Confidence Level	100	
Timestamp	0	
Detected text	difficulty	
Text Type	WORD	
Confidence Level	1 0 0	
Timestamp	0	
Detected text	o f	
Text Type	WORD	
Confidence Level	100	
Timestamp	1000	
Detected text	deeplearningbook.org/com	nter
Text Type	LINE	
Confidence Level	97.09294	

t s

Confidence Level	97.73924
Timestamp	1000
Detected text	
Text Type	LINE
Confidence Level	81.14071
Timestamp	1000
Detected text	-
Text Type	LINE
Confidence Level	90.16131
Timestamp	1000
Detected text	1 2 0 %
Text Type	LINE
Confidence Level	99.259674
Timestamp	1000
Detected text	+
Text Type	LINE
Confidence Level	95.83717
Timestamp	1000
Detected text	Greedy layer-wise unsupervise
	pretraining relies on a single-
	represen-
Text Type	LINE
Confidence Level	99.738945

Detected text	tation learning algorithm	such
	RBM, a single-layer auto	e n c o d e
	sparse	
Text Type	LINE	
Confidence Level	99.653694	
Timestamp	1000	
Detected text	coding model, or another	model
	learns latent representation	ns. Ea
	is	
Text Type	LINE	
Confidence Level	99.82069	
Timestamp	1000	
Detected text	pretrained using unsuperv	ised le
	taking the output of the p	reviou
Text Type	LINE	
Confidence Level	99.89786	
Timestamp	1000	
Detected text	and producing as outpu	t a nev
	representation of the da	ta, wh
	distribution (or	
Text Type	LINE	
Confidence Level	99.7581	
Timestamp	1000	
Detected text	its relation to other varia	bles,
	categories to predict) is h	o p e f u l
Text Type	LINE	
Confidence Level	99.83772	
Timestamp	1000	

Detected text	See algorithm 15.1 for	a form
	description.	
Text Type	LINE	
Confidence Level	99.7344	
Timestamp	1000	
Detected text	Greedy layer-wise training	proc
	based on unsupervised cri	teria h
Text Type	LINE	
Confidence Level	99.92808	
Timestamp	1000	
Detected text	been used to sidestep the	diffic
Text Type	LINE	
Confidence Level	99.90593	
Timestamp	1000	
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	97.09294	
Timestamp	1000	
Detected text	+	
Text Type	WORD	
Confidence Level	97.73924	
Timestamp	1000	
Detected text		
Text Type	WORD	
Confidence Level	81.14071	
Timestamp	1000	
Detected text	-	
	•	•

Text Type	WORD
Confidence Level	90.16131
Timestamp	1000
Detected text	120%
Text Type	WORD
Confidence Level	99.259674
Timestamp	1000
Detected text	+
Text Type	WORD
Confidence Level	95.83717
Timestamp	1000
Detected text	G r e e d y
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.71349
Timestamp	1000
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.7533
Timestamp	1000
Detected text	pretraining
Text Type	WORD
Confidence Level	100

Timestamp	1000
Detected text	relies
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	o n
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	a
Text Type	WORD
Confidence Level	98.56554
Timestamp	1000
Detected text	single-layer
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	represen-
Text Type	WORD
Confidence Level	99.61813
Timestamp	1000
Detected text	tation
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	learning
Text Type	WORD

Confidence Level	100
Timestamp	1000
Detected text	algorithm
Text Type	WORD
Confidence Level	99.93133
Timestamp	1000
Detected text	such
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1 0 0 0
Detected text	a s
Text Type	WORD
Confidence Level	99.90309
Timestamp	1000
Detected text	a n
Text Type	WORD
Confidence Level	99.54051
Timestamp	1000
Detected text	RBM,
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	a
Text Type	WORD
Confidence Level	98.60408
Timestamp	1000

Detected text	single-layer
Text Type	WORD
Confidence Level	100
Time and a man	4000
Timestamp	1000
Detected text	a u t o e n c o d e r ,
Text Type	WORD
Confidence Level	99.21329
Timestamp	1 0 0 0
Detected text	a
Text Type	WORD
Confidence Level	98.77936
Timestamp	1000
Detected text	sparse
Text Type	WORD
Confidence Level	99.87271
Timestamp	1000
Detected text	c o d i n g
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1 0 0 0
Detected text	m o d e l ,
Text Type	WORD
Confidence Level	99.93702
Timestamp	1000
Detected text	o r
Text Type	WORD
Confidence Level	100

Timestamp	1000
Detected text	a n o t h e r
Text Type	WORD
Confidence Level	99.85704
Timestamp	1000
Detected text	m o d e l
Text Type	WORD
Confidence Level	99.75364
Timestamp	1000
Detected text	that
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1000
Detected text	learns
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	latent
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1000
Detected text	representations.
	W O R D
Text Type  Confidence Level	
Confidence Level	98.68634
Timestamp	1000
Detected text	Each
Text Type	WORD

Confidence Level	1 0 0
Timestamp	1000
Detected text	layer
Text Type	WORD
Confidence Level	99.95636
Timestamp	1000
Detected text	is
Text Type	WORD
Confidence Level	99.657875
Timestamp	1000
Detected text	pretrained
Text Type	WORD
Confidence Level	99.79398
Timestamp	1000
Detected text	using
Text Type	WORD
Confidence Level	99.85375
Timestamp	1000
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.77288
Timestamp	1000
Detected text	learning,
Text Type	WORD
Confidence Level	99.45584
Timestamp	1000

Detected text	taking
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	o u t p u t
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	previous
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	layer
Text Type	WORD
Confidence Level	1 0 0

Timestamp	1000
Detected text	a n d
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	producing
Text Type	WORD
Confidence Level	99.976845
Timestamp	1000
Detected text	a s
Text Type	WORD
Confidence Level	99.66146
Timestamp	1000
Detected text	o u t p u t
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	a
Text Type	WORD
Confidence Level	99.1427
Timestamp	1000
Detected text	n e w
Text Type	WORD
Confidence Level	99.787704
Timestamp	1000
Detected text	representation
Text Type	WORD

Timestamp 1000  Detected text of Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text the Text Type WORD  Confidence Level 100  Timestamp 1000  Timestamp 1000  Detected text data, Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text data, Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text whose Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or Text Type WORD  Confidence Level 99.36269	Confidence Level	99.22782
Detected text Text Type  Confidence Level  Timestamp  Detected text Text Type  Confidence Level  Timestamp  Timestamp  Timestamp  Touth Type  Confidence Level  Text Type  Confidence Level  Timestamp  Touth Type  Confidence Level  Timestamp  Touth Type  Confidence Level  Timestamp  Touth Type  Confidence Level  Text Type  Confidence Level  Timestamp  Touth Type  Confidence Level  Timestamp  Touth Type  Confidence Level  Text Type  Confidence Level  Text Type  Confidence Level  Timestamp  Touth Type  Touth		
Text Type	Timestamp	1000
Timestamp 1000  Detected text the Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text data, Text Type WORD  Confidence Level 100  Timestamp 1000  Confidence Level 100  Timestamp 1000  Detected text whose Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or Text Type WORD  Confidence Level 99.80604	Detected text	of
Timestamp 1000  Detected text the Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text data, Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text whose Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or Text Type WORD  Confidence Level 99.36269	Text Type	WORD
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Detected text Text Type  Confidence Level  Timestamp  Detected text  Text Type  Confidence Level  Timestamp  Timestamp  Timestamp  Detected text  Text Type  Confidence Level  Text Type  Confidence Level  Timestamp  Detected text  Text Type  Confidence Level  Timestamp  Detected text  Timestamp  Timestamp  Detected text  Text Type  Confidence Level  Timestamp  Detected text  Text Type  Confidence Level  Timestamp  Timestamp  Text Type  Confidence Level  Timestamp  Tooo  Confidence Level  Timestamp  Tooo  Confidence Level  Timestamp  Tooo  Confidence Level  Text Type		
Text Type	Timestamp	1000
Timestamp 1000  Detected text data, Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text whose Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Confidence Level 99.89008  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Confidence Level 99.36269  Timestamp 1000  Confidence Level 99.36269  Confidence Level 99.80604	Detected text	t h e
Timestamp 1000  Detected text data,  Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text whose  Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Detected text distribution  Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.36269  Confidence Level 99.80604	Text Type	WORD
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Detected text Text Type  Confidence Level  Timestamp  Detected text Whose Text Type WORD  Confidence Level  99.89008  Timestamp 1000  Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or Text Type WORD  Confidence Level 99.36269  Confidence Level 99.36269		
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Confidence Level 100  Timestamp 1000 Detected text whose Text Type WORD  Confidence Level 99.89008  Timestamp 1000 Detected text distribution Text Type WORD  Confidence Level 99.36269  Timestamp 1000 Detected text (or Text Type WORD  Confidence Level 99.36269  Confidence Level 99.80604	Detected text	
Timestamp 1000  Detected text whose  Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Detected text distribution  Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.36269  Confidence Level 99.80604	Text Type	WORD
Detected text Text Type WORD Confidence Level 99.89008  Timestamp 1000 Detected text distribution Text Type WORD Confidence Level 99.36269  Timestamp 1000 Detected text (or Text Type WORD Confidence Level 99.36269  Confidence Level 99.80604	Confidence Level	100
Detected text Text Type WORD Confidence Level 99.89008  Timestamp 1000 Detected text distribution Text Type WORD Confidence Level 99.36269  Timestamp 1000 Detected text (or Text Type WORD Confidence Level 99.36269  Confidence Level 99.80604		
Text Type WORD  Confidence Level 99.89008  Timestamp 1000  Detected text distribution  Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.80604	Timestamp	1000
Confidence Level 99.89008  Timestamp 1000 Detected text distribution Text Type WORD Confidence Level 99.36269  Timestamp 1000 Detected text (or Text Type WORD Confidence Level 99.80604	Detected text	whose
Timestamp 1000  Detected text distribution  Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.80604	Text Type	WORD
Detected text distribution  Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.80604	Confidence Level	99.89008
Detected text distribution  Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.80604		1000
Text Type WORD  Confidence Level 99.36269  Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.80604	·	
Confidence Level 99.36269  Timestamp 1000 Detected text (or Text Type WORD Confidence Level 99.80604		
Timestamp 1000  Detected text (or  Text Type WORD  Confidence Level 99.80604		
Detected text (or Text Type WORD Confidence Level 99.80604	Confidence Level	99.36269
Detected text (or Text Type WORD Confidence Level 99.80604	Timestamp	1000
Text Type WORD Confidence Level 99.80604	-	
Confidence Level 99.80604		·
	OUTITION LEVEL	33.00004
I i m e s t a m p 1000	Timestamp	1000

Detected text	its
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	relation
Text Type	WORD
Confidence Level	100
Timestamp	1 0 0 0
Detected text	t o
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1000
Detected text	o t h e r
Text Type	WORD
Confidence Level	99.99927
Timestamp	1000
Detected text	variables,
Text Type	WORD
Confidence Level	99.234024
Timestamp	1000
Detected text	s u c h
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1000
Detected text	a s
Text Type	WORD
Confidence Level	99.65636

Text Type WORD  Confidence Level 1000  Timestamp 1000  Detected text to Text Type WORD  Confidence Level 1000  Timestamp 1000  Timestamp 1000  Detected text predict)  Text Type WORD  Confidence Level 99.3716  Timestamp 1000  Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text simpler.  Text Type WORD  Confidence Level 99.89207	Timestamp	1000
Confidence Level 100  Timestamp 1000  Detected text to Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text predict)  Text Type WORD  Confidence Level 99.3716  Timestamp 1000  Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text is WORD  Confidence Level 99.73705  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text hopefully WORD  Confidence Level 99.89207	Detected text	categories
Timestamp 1000  Detected text to Text Type WORD  Confidence Level 100  Timestamp 1000  Detected text predict)  Text Type WORD  Confidence Level 99.3716  Timestamp 1000  Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text is 1000  Timestamp WORD  Confidence Level 99.73705  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text simpler.  Timestamp 1000  Detected text simpler.  Text Type WORD	Text Type	WORD
Detected text Text Type  Confidence Level  Timestamp 1000  Detected text predict)  Text Type WORD  Confidence Level 99.3716  Timestamp 1000  Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207	Confidence Level	100
Detected text Text Type  Confidence Level  Timestamp 1000  Detected text predict)  Text Type WORD  Confidence Level 99.3716  Timestamp 1000  Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text hopefully Text Type WORD  Confidence Level 99.89207		
Text Type Confidence Level 100  Timestamp 1000 Detected text Text Type WORD Confidence Level 99.3716  Timestamp 1000 Detected text is Text Type WORD Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.89207  Timestamp 1000 Detected text simpler. Text Type WORD	Timestamp	1000
Timestamp 1000  Detected text predict)  Text Type WORD  Confidence Level 99.3716  Timestamp 1000  Detected text is  Text Type WORD  Confidence Level 99.73705  Timestamp 1000  Detected text hopefully  Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text hopefully  Text Type WORD  Confidence Level 99.89207	Detected text	t o
Timestamp 1000 Detected text predict) Text Type WORD Confidence Level 99.3716  Timestamp 1000 Detected text is Text Type WORD Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.89207  Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.89207	Text Type	WORD
Detected text Text Type  Confidence Level  Timestamp  Detected text Text Type  Confidence Level  Timestamp  Confidence Level  Timestamp  Timestamp  Timestamp  Timestamp  Tooo  Detected text Text Type  WORD  Confidence Level  Detected text Text Type  WORD  Confidence Level  Text Type  WORD  Confidence Level  Detected text Text Type  WORD  Timestamp  Timestamp  Timestamp  Tooo  Detected text Simpler.  Text Type  WORD	Confidence Level	100
Detected text Text Type  Confidence Level  Timestamp  Detected text Text Type  Confidence Level  Timestamp  Confidence Level  Timestamp  Timestamp  Timestamp  Timestamp  Tooo  Detected text Text Type  WORD  Confidence Level  Detected text Text Type  WORD  Confidence Level  Text Type  WORD  Confidence Level  Detected text Text Type  WORD  Timestamp  Timestamp  Timestamp  Tooo  Detected text Simpler.  Text Type  WORD		
Text Type WORD  Confidence Level 99.3716  Timestamp 1000 Detected text is Text Type WORD  Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000 Detected text simpler. Text Type WORD	Timestamp	1000
Confidence Level 99.3716  Timestamp 1000 Detected text is Text Type WORD Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.89207  Timestamp 1000 Detected text to hopefully Text Type WORD Confidence Level 99.89207	Detected text	predict)
Timestamp 1000 Detected text is Text Type WORD Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.89207  Timestamp 1000 Detected text simpler. Text Type WORD	Text Type	WORD
Detected text  Text Type  Confidence Level  99.73705  Timestamp  1000  Detected text hopefully  Text Type  WORD  Confidence Level  99.89207  Timestamp  1000  Detected text simpler.  Text Type  WORD	Confidence Level	99.3716
Detected text  Text Type  Confidence Level  99.73705  Timestamp  1000  Detected text hopefully  Text Type  WORD  Confidence Level  99.89207  Timestamp  1000  Detected text simpler.  Text Type  WORD		
Text Type WORD  Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000 Detected text simpler. Text Type WORD	Timestamp	1000
Confidence Level 99.73705  Timestamp 1000 Detected text hopefully Text Type WORD  Confidence Level 99.89207  Timestamp 1000 Detected text simpler. Text Type WORD	Detected text	is
Timestamp 1000 Detected text hopefully Text Type WORD Confidence Level 99.89207  Timestamp 1000 Detected text simpler. Text Type WORD	Text Type	WORD
Detected text hopefully  Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text simpler.  Text Type WORD	Confidence Level	99.73705
Detected text hopefully  Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text simpler.  Text Type WORD		
Text Type WORD  Confidence Level 99.89207  Timestamp 1000  Detected text simpler.  Text Type WORD	Timestamp	1000
Confidence Level 99.89207  Timestamp 1000  Detected text simpler.  Text Type WORD	Detected text	hopefully
Timestamp 1000 Detected text simpler. Text Type WORD	Text Type	WORD
Detected text simpler.  Text Type WORD	Confidence Level	99.89207
Detected text simpler.  Text Type WORD		
Text Type WORD	Timestamp	1000
	Detected text	simpler.
Confidence Level 100	Text Type	WORD
	Confidence Level	100
Timestamp 1000	Timestamp	1000
Detected text See	Detected text	S e e
Text Type WORD	Text Type	WORD

Confidence Level	100
Time and a man	4000
Timestamp	1000
Detected text	algorithm
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1 0 0 0
Detected text	15.1
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	for
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	a
Text Type	WORD
Confidence Level	98.447
Timestamp	1000
Detected text	formal
Text Type	WORD
Confidence Level	99.98788
Timestamp	1 0 0 0
Detected text	description.
Text Type	WORD
Confidence Level	99.70588
Timestamp	1000

Detected text	G r e e d y
Text Type	WORD
Confidence Level	99.86409
Timestamp	1000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.88195
Timestamp	1000
Detected text	training
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	procedures
Text Type	WORD
Confidence Level	99.88593
Timestamp	1000
Detected text	b a s e d
Text Type	WORD
Confidence Level	1 0 0
Timestamp	1 0 0 0
Detected text	o n
Text Type	WORD
Confidence Level	99.64882
Timestamp	1000
Detected text	unsupervised
Text Type	WORD
Confidence Level	100

Timestamp	1000
Detected text	criteria
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	h a v e
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	long
Text Type	WORD
Confidence Level	100
Timestamp	1000
Detected text	b e e n
Text Type	WORD
Confidence Level	99.73356
Timestamp	1000
Detected text	u s e d
Text Type	WORD
Confidence Level	99.76707
Timestamp	1000
Detected text	t o
Text Type	WORD
Confidence Level	99.97805
Timestamp	1000
Detected text	sidestep
Text Type	WORD

Confidence Level	99.8628	
Timestamp	1000	
Detected text	t h e	
Text Type	WORD	
Confidence Level	100	
Timestamp	1000	
Detected text	difficulty	
Text Type	WORD	
Confidence Level	100	
Timestamp	1 0 0 0	
Detected text	o f	
Text Type	WORD	
Confidence Level	100	
Timestamp	2000	
Detected text	deeplearningbook.org/co	ntents
Text Type	LINE	
Confidence Level	96.178215	
Timestamp	2000	
Detected text	+	
Text Type	LINE	
Confidence Level	97.740395	
Timestamp	2000	
Detected text		
Text Type	LINE	
Confidence Level	81.40499	
Timestamp	2000	
Timestamp	2000	

Detected text	-	
Text Type	LINE	
Confidence Level	90.25052	
Timestamp	2000	
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.26023	
Timestamp	2000	
Detected text	+	
Text Type	LINE	
Confidence Level	95.84708	
<b>—</b>		
Timestamp	2000	
Detected text	Greedy layer-wise unsu	
	pretraining relies on a s	ingle-I
	represen-	
Text Type	LINE	
Confidence Level	99.74271	
Timestamp	2000	
Detected text	tation learning algorithm	such
	RBM, a single-layer auto	e n c o d e
	sparse	
Text Type	LINE	
Confidence Level	99.65661	
Timestamp	2000	
Detected text	coding model, or another	m o d e l
	learns latent representation	ns. Ea
	is	
Text Type	LINE	

ı	1	ı
Confidence Level	99.82075	
Timestamp	2000	
Detected text	pretrained using unsuperv	ised le
	taking the output of the p	reviou
Text Type	LINE	
Confidence Level	99.89559	
Timestamp	2000	
Detected text	and producing as outpu	t a nev
	representation of the da	ta, wh
	distribution (or	
Text Type	LINE	
Confidence Level	99.75737	
Timestamp	2000	
Detected text	its relation to other varia	bles,
	categories to predict) is h	o p e f u l
Text Type	LINE	
Confidence Level	99.8345	
Timestamp	2000	
Detected text	See algorithm 15.1 for	a form
	description.	
Text Type	LINE	
Confidence Level	99.73454	
Timestamp	2000	
Detected text	Greedy layer-wise training	g proc
	based on unsupervised cri	
Text Type	LINE	
Confidence Level	99.92855	
	<u> </u>	J

Timestamp	2000	
Detected text	been used to sidestep the	diffic
Text Type	LINE	
Confidence Level	99.90635	
Timestamp	2000	
Detected text	deeplearningbook.org/co	ntents
Text Type	W O R D	
Confidence Level	96.178215	
Timester	2000	
Timestamp		
Detected text	+ W O B D	
Text Type	WORD	
Confidence Level	97.740395	
Timestamp	2000	
Detected text		
Text Type	WORD	]
Confidence Level	81.40499	
Timestamp	2000	
Detected text	_	
Text Type	WORD	
Confidence Level	90.25052	
<b>=</b> 1		
Timestamp	2000	
Detected text	1 2 0 %	
Text Type	WORD	ļ
Confidence Level	99.26023	
Timestamp	2000	
Detected text	+	1
		1

Confidence Level	95.84708
Timestamp	2000
Detected text	G r e e d y
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.77074
Timestamp	2000
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.75424
Timestamp	2000
Detected text	pretraining
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	relies
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	o n
Text Type	WORD
Confidence Level	100
Timestamp	2000

Detected text	a
Text Type	WORD
Confidence Level	98.53861
Timestamp	2000
Detected text	single-layer
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	represen-
Text Type	WORD
Confidence Level	99.62079
Timestamp	2000
Detected text	tation
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	learning
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	algorithm
Text Type	WORD
Confidence Level	99.93105
Timestamp	2000
Detected text	s u c h
Text Type	WORD
Confidence Level	100

Timestamp	2000
Detected text	as
Text Type	WORD
Confidence Level	99.89815
Timestamp	2000
Detected text	a n
Text Type	WORD
Confidence Level	99.54079
Timestamp	2000
Detected text	RBM,
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	a
Text Type	WORD
Confidence Level	98.62533
Timestamp	2000
Detected text	s in gle-layer
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	a u t o e n c o d e r ,
Text Type	WORD
Confidence Level	99.218155
Timestamp	2000
Detected text	a
Text Type	WORD

Confidence Level	98.7926
Timestamp	2000
Detected text	sparse
Text Type	WORD
Confidence Level	99.8732
Timestamp	2000
Detected text	c o d i n g
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	m o d e l ,
Text Type	WORD
Confidence Level	99.938194
Timestamp	2000
Detected text	o r
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	another
Text Type	WORD
Confidence Level	99.86098
Timestamp	2000
Detected text	m o d e l
Text Type	WORD
Confidence Level	99.75334
Timestamp	2000

Detected text	that
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	learns
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	latent
Text Type	WORD
Confidence Level	1 0 0
Thursday and	0.000
Timestamp	2000
Detected text	representations.
Text Type	WORD
Confidence Level	98.6823
Timestamp	2000
Detected text	Each
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	layer
Text Type	WORD
Confidence Level	99.95534
Community Level	00.0004
Timestamp	2000
Detected text	is
Text Type	WORD
Confidence Level	99.65882

Timestamp	2000
Detected text	pretrained
Text Type	WORD
Confidence Level	99.793304
Timestamp	2000
Detected text	using
Text Type	WORD
Confidence Level	99.85329
Timestamp	2000
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.773636
Timestamp	2000
Detected text	learning,
Text Type	WORD
Confidence Level	99.43127
Timestamp	2000
Detected text	taking
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	output
Text Type	WORD

Confidence Level	1 0 0
Timestamp	2000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	previous
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	a n d
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	producing
Text Type	WORD
Confidence Level	99.97639
Timestamp	2000

Detected text	a s
Text Type	WORD
Confidence Level	99.66277
Timestamp	2000
Detected text	o u t p u t
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	a
Text Type	WORD
Confidence Level	99.13071
Timestamp	2000
Detected text	n e w
Text Type	WORD
Confidence Level	99.78791
Timestamp	2000
Detected text	representation
Text Type	WORD
Confidence Level	99.228615
Timestamp	2000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	t h e
Text Type	WORD
Confidence Level	100

Timestamp 20	0 0 0
Detected text da	ata,
Text Type Wo	O R D
Confidence Level 1	0 0
Timestamp 20	0 0 0
Detected text wh	1 0 S e
Text Type Wo	O R D
Confidence Level 99.	88946
Timestamp 20	0 0 0
Detected text dist	ribution
Text Type Wo	O R D
Confidence Level 99.	36286
Timestamp 20	0 0 0
Detected text (	o r
Text Type Wo	O R D
Confidence Level 99.	80706
Timestamp 20	0 0 0
Detected text i	ts
Text Type W	O R D
Confidence Level 1	0 0
Timestamp 20	0 0 0
Detected text rel	ation
Text Type Wo	O R D
Confidence Level 1	0 0
Timestamp 20	0 0 0
Detected text t	0
Text Type Wo	O R D

Confidence Level	100
Timestamp	2000
Detected text	o t h e r
Text Type	WORD
Confidence Level	99.998505
Timestamp	2000
Detected text	variables,
Text Type	WORD
Confidence Level	99.29845
Timestamp	2000
Detected text	s u c h
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	as
Text Type	WORD
Confidence Level	99.65672
Timestamp	2000
Detected text	categories
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	t o
Text Type	WORD
Confidence Level	100
Timestamp	2000

Detected text	predict)
Text Type	WORD
Confidence Level	99.36075
Timestamp	2000
Detected text	is
Text Type	WORD
Confidence Level	99.73694
Timestamp	2000
Detected text	hopefully
Text Type	WORD
Confidence Level	99.89079
Timestamp	2000
Detected text	simpler.
Text Type	WORD
Confidence Level	99.906395
Timestamp	2000
Detected text	S e e
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	algorithm
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	15.1
Text Type	WORD
Confidence Level	100
	<u> </u>

Timestamp	2000
Detected text	for
Text Type	WORD
Confidence Level	100
Timestamp	2000
Detected text	a
Text Type	WORD
Confidence Level	98.45198
Timestamp	2000
Detected text	formal
Text Type	WORD
Confidence Level	99.98777
Timestamp	2000
Detected text	description.
Text Type	WORD
Confidence Level	99.70207
Timestamp	2000
Detected text	G r e e d y
Text Type	WORD
Confidence Level	99.864685
Timestamp	2000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.884415
Timestamp	2000
Detected text	training
Text Type	WORD

Confidence Level	100
Timestamp	2000
Detected text	procedures
Text Type	WORD
Confidence Level	99.88674
Timestamp	2000
Detected text	b a s e d
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	o n
Text Type	WORD
Confidence Level	99.6497
Timestamp	2000
Detected text	unsupervised
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	criteria
Text Type	WORD
Confidence Level	1 0 0
Timestamp	2000
Detected text	h a v e
Text Type	WORD
Confidence Level	100
Timestamp	2000

Timestamp  Detected text Text Type  WORD  2000  Detected text Been  Text Type  WORD  Confidence Level  99.73434
Timestamp 2000 Detected text been Text Type WORD Confidence Level 99.73434
Detected text been  Text Type WORD  Confidence Level 99.73434
Detected text been  Text Type WORD  Confidence Level 99.73434
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Confidence Level 99.73434
Time and a man
Time and a man
Timestamp 2000
Detected text used
Text Type WORD
Confidence Level 99.76787
Timestamp 2000
Detected text to
Text Type WORD
Confidence Level 99.97825
Timestamp 2000
Detected text sidestep
Text Type WORD
Confidence Level 99.86397
Timestamp 2000
Detected text the
Text Type WORD
Confidence Level 100
Timestamp 2000
Detected text difficulty
Text Type WORD
Confidence Level 100

	-	•
Text Type  Confidence Level	LINE 97.10973	
Timestamp	3 0 0 0	
Detected text		
	+ LINE	
Text Type		
Confidence Level	97.64838	
Timastamn	3 0 0 0	
Timestamp	3000	
Detected text	LINE	
Text Type	LINE	
Confidence Level	81.04243	
Timestamp	3 0 0 0	
Detected text	1 2 0 %	
 Text Type	LINE	
Confidence Level	99.27889	
Timestamp	3000	
Detected text	+	ļ
Text Type	LINE	
Confidence Level	96.02551	
Timestamp	3 0 0 0	
Detected text	Greedy layer-wise unsu	bervis
	pretraining relies on a s	

	represen-	
Text Type	LINE	
Confidence Level	99.74133	
Timestamp	3000	
Detected text	tation learning algorithm s	u c h
	RBM, a single-layer autoen	c o d e
	sparse	
Text Type	LINE	
Confidence Level	99.71064	
Timestamp	3000	
Detected text	coding model, or another m	o d e l
	learns latent representations	s. Ea
	is	
Text Type	LINE	
Confidence Level	99.83655	
Timestamp	3000	
Detected text	pretrained using unsupervis	ed l
	taking the output of the pre	viou
Text Type	LINE	
Confidence Level	99.84663	
Timestamp	3000	
Detected text	and producing as output a	a ne
	representation of the data	, w h
	distribution (or	
Text Type	LINE	
Confidence Level	99.74192	
Timestamp	3000	
Detected text	its relation to other variabl	0.0

	categories to predict) is h	opefull
Text Type	LINE	·
Confidence Level	99.84325	-
Timestamp	3 0 0 0	]
Detected text	See algorithm 15.1 for	a form
	description.	
Text Type	LINE	
Confidence Level	99.7557	
Timestamn	3000	<u> </u>
Timestamp  Detected text		
Detected text	Greedy layer-wise trainin	
Tayt Type	based on unsupervised cri	teria n
Text Type		1
Confidence Level	99.961235	_
Timestamp	3000	-
Detected text		diffic
Detected text	been used to sidestep the	ullile
Text Type	LINE	-
Confidence Level	99.968376	-
Confidence Level	99.900370	]
Timestamp	3000	-
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	97.10973	
Timestamp	3 0 0 0	]
Detected text	+	
Text Type	WORD	]
Confidence Level	97.64838	
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Detected text	
Text Type	WORD
Confidence Level	81.04243
Timestamp	3000
Detected text	1 2 0 %
Text Type	WORD
Confidence Level	99.27889
Timestamp	3000
•	
Detected text	+ W O D D
Text Type	WORD
Confidence Level	96.02551
Timestamp	3 0 0 0
Detected text	G r e e d y
Text Type	WORD
Confidence Level	99.88086
Timestamp	3000
Detected text	layer-wise
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.96978
Timestamp	3000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.76237
	•

Timestamp	3000
Detected text	relies
Text Type	WORD
Confidence Level	99.95048
Timestamp	3000
Detected text	o n
Text Type	WORD
Confidence Level	99.70371
Timestamp	3000
Detected text	a
Text Type	WORD
Confidence Level	98.55963
Timestamp	3000
Detected text	single-layer
Text Type	WORD
Confidence Level	99.85729
Timestamp	3000
Detected text	represen-
Text Type	WORD
Confidence Level	99.98791
Timestamp	3000
Detected text	tation
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	learning
Text Type	WORD

Confidence Level	99.144196
Timestamp	3000
Detected text	algorithm
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	s u c h
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	a s
Text Type	WORD
Confidence Level	99.58083
Timestamp	3000
Detected text	a n
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	RBM,
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	a
Text Type	W O R D
Confidence Level	98.99802
Timestamp	3000

Detected text	single-layer
Text Type	WORD
Confidence Level	99.80166
Timestamp	3 0 0 0
Detected text	a u t o e n c o d e r ,
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	a
Text Type	WORD
Confidence Level	99.00303
Timestamp	3000
Detected text	sparse
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	c o d i n g
Text Type	WORD
Confidence Level	99.90451
Timestamp	3000
Detected text	m o d e l ,
Text Type	WORD
Confidence Level	99.928535
Timestamp	3000
Detected text	o r
Text Type	WORD
Confidence Level	99.48241

Timestamp	3000
Detected text	a n o t h e r
Text Type	WORD
Confidence Level	99.356636
Timestamp	3000
Detected text	m o d e l
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	that
Text Type	WORD
Confidence Level	99.86791
Timestamp	3000
Detected text	learns
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	latent
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	representations.
Text Type	WORD
Confidence Level	99.63011
Timestamp	3000
Detected text	Each
Text Type	WORD

3000
3 0 0 0
3000
layer
WORD
1 0 0
3000
is
WORD
99.86847
3000
pretrained
W O R D
1 0 0
3000
using
WORD
1 0 0
3000
unsupervised
WORD
1 0 0
3000
learning,
WORD
98.80774
3000

Detected text	taking
Text Type	WORD
Confidence Level	99.9557
Timestamp	3 0 0 0
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	output
Text Type	WORD
Confidence Level	99.70145
Timestamp	3000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	previous
Text Type	WORD
Confidence Level	99.848045
T: m a a t a m m	2000
Timestamp	3 0 0 0
Detected text	layer
Text Type	WORD
Confidence Level	100

Timestamp	3000
Detected text	a n d
Text Type	WORD
Confidence Level	99.91928
Timestamp	3000
Detected text	producing
Text Type	WORD
Confidence Level	99.46602
Timestamp	3 0 0 0
Detected text	a s
Text Type	WORD
Confidence Level	99.6346
Timestamp	3 0 0 0
Detected text	output
Text Type	WORD
Confidence Level	99.66029
Timestamp	3 0 0 0
Detected text	a
Text Type	WORD
Confidence Level	98.6504
Timestamp	3000
Detected text	n e w
Text Type	WORD
Confidence Level	99.92216
Timestamp	3000
Detected text	representation
Text Type	WORD

Confidence Level	99.42201
Timestamp	3000
Detected text	o f
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	data,
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	whose
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	distribution
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	(or
Text Type	WORD
Confidence Level	99.970215
Time at am n	2000
Timestamp	3000

Detected text	its
Text Type	WORD
Confidence Level	99.97607
Timestamp	3000
Detected text	relation
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	t o
Text Type	WORD
Confidence Level	99.72056
Timestamp	3000
Detected text	o t h e r
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3 0 0 0
Detected text	variables,
Text Type	WORD
Confidence Level	99.520065
Timestamp	3000
Detected text	s u c h
Text Type	WORD
Confidence Level	99.927
Timestems	3000
Timestamp	
Detected text	a s w o p p
Text Type	W O R D
Confidence Level	99.86489

Timestamp	3000
Detected text	categories
Text Type	WORD
Confidence Level	99.78299
Timestamp	3000
Detected text	t o
Text Type	WORD
Confidence Level	99.94663
Timestamp	3 0 0 0
Detected text	predict)
Text Type	WORD
Confidence Level	99.40385
Timestamp	3000
Detected text	is
Text Type	WORD
Confidence Level	99.82022
Timestamp	3 0 0 0
Detected text	hopefully
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	simpler.
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	S e e
Text Type	WORD

Confidence Level	100
Timestamp	3000
Detected text	algorithm
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	15.1
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	for
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	a
Text Type	WORD
Confidence Level	98.2899
Timestamp	3000
Detected text	formal
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	description.
Text Type	WORD
Confidence Level	99.9999
Timestamp	3000

Detected text	G r e e d y
Text Type	WORD
Confidence Level	99.92728
Timestamp	3000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.94882
Timestamp	3000
Detected text	training
Text Type	WORD
Confidence Level	99.97228
Timestamp	3000
Detected text	procedures
Text Type	WORD
Confidence Level	100
Timestamp	3 0 0 0
Detected text	b a s e d
Text Type	WORD
Confidence Level	1 0 0
Timestamp	3000
Detected text	o n
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	unsupervised
Text Type	WORD
Confidence Level	100

Timestamp	3000
Detected text	criteria
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	h a v e
Text Type	WORD
Confidence Level	99.76399
Timestamp	3000
Detected text	long
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	b e e n
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	u s e d
Text Type	WORD
Confidence Level	100
Timestamp	3000
Detected text	t o
Text Type	WORD
Confidence Level	99.99832
Timestamp	3000
Detected text	sidestep
Text Type	WORD

Confidence Level	99.74868	
Timestamp	3000	
Detected text	t h e	
Text Type	WORD	
Confidence Level	100	
Timestamp	3000	
Detected text	difficulty	
Text Type	WORD	
Confidence Level	100	
CONTINUENCE LEVEL	100	
Timestamp	3 0 0 0	
Detected text	o f	
Text Type	WORD	
Confidence Level	100	
Timestamp	3 0 0 0	
Detected text	jointly	
Text Type	WORD	
Confidence Level	100	
Timestamp	4000	
Detected text	deeplearningbook.org/co	ntents
Text Type	LINE	11101110
Confidence Level	96.07841	
Outridence 2000.	30.0704.	
Timestamp	4000	
Detected text	+	
Text Type	LINE	
Confidence Level	97.66429	
	1000	
Timestamp	4000	 

Detected text	-	
Text Type	LINE	
Confidence Level	89.41788	
Timestamp	4000	
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.325424	
Timestamp	4000	
Detected text	+	
Text Type	LINE	
Confidence Level	96.27867	
Timestamp	4000	
Detected text	that greedy layer-wise pre	trainin
	required to train fully co	nnecte
Text Type	LINE	
Confidence Level	99.86588	
Timestamp	4000	
Detected text	architectures, but the un	superv
	pretraining approach wa	
	method to	
Text Type	LINE	
Confidence Level	99.88855	
Timestamp	4000	
Detected text	succeed.	
	LINE	
Text Type  Confidence Level	99.49745	
Confidence Level	33.43743	
Timestamp	4000	
		•

Detected text	Greedy layer-wise pretrai	ning is
	greedy because it is a g	reedy
Text Type	LINE	1
Confidence Level	99.86162	1
		]
Timestamp	4000	]
Detected text	5 2 6	_
Text Type	LINE	
Confidence Level	1 0 0	<u> </u>
Timestamp	4000	
Detected text	CHAPTER 15. REPRESEN	TATION
	LEARNING	
Text Type	LINE	1
Confidence Level	99.80019	
		]
Timestamp	4000	
Detected text	rithm, meaning that it op	timizes
	piece of the solution inde	p e n d e r
Text Type	LINE	
Confidence Level	99.93586	
Timestamp	4000	
Detected text	piece at a time, rather t	han io
Detected text	optimizing all pieces. It	
	layer-wise	1000
Text Type	LINE	1
Confidence Level	99.87152	1
Confidence Level	33.07132	
Timestamp	4000	
Detected text	because these independen	t piec
	the layers of the network.	. Speci
	g r e e d y	

Text Type	LINE	
Confidence Level	99.91151	
Timestamp	4000	
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	96.07841	
Timestamp	4000	
Detected text	+	
Text Type	WORD	
Confidence Level	97.66429	
Timestamp	4000	
Detected text	-	
Text Type	WORD	
Confidence Level	89.41788	
Timestamp	4000	
Detected text	1 2 0 %	
Text Type	WORD	
Confidence Level	99.325424	
Timestamp	4000	
Detected text	+	
Text Type	WORD	
Confidence Level	96.27867	
Timestamp	4000	
Detected text	that	
Text Type	WORD	
Confidence Level	100	

Timestamp	4000
Detected text	g r e e d y
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.629196
Timestamp	4000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.66255
Timestamp	4000
Detected text	is
Text Type	WORD
Confidence Level	99.71026
Timestamp	4000
Detected text	n o t
Text Type	WORD
Confidence Level	99.98605
Timestamp	4000
Detected text	required
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	t o
Text Type	WORD

Confidence Level	100
Timestamp	4000
Detected text	train
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	fully
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	c o n n e c t e d
Text Type	WORD
Confidence Level	99.40256
Timestamp	4000
Detected text	d e e p
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	architectures,
Text Type	WORD
Confidence Level	99.31169
Timestamp	4000
Detected text	b u t
Text Type	WORD
Confidence Level	100
Timestamp	4000

Detected text	t h e
Text Type	WORD
Confidence Level	99.95187
Timestamp	4000
Detected text	unsupervised
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.93213
Timestamp	4000
Detected text	approach
Text Type	WORD
Confidence Level	100
Timestamp	4 0 0 0
Detected text	w a s
Text Type	WORD
Confidence Level	99.9202
Timestamp	4000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	first
Text Type	WORD
Confidence Level	100

Timestamp	4000
Detected text	m e t h o d
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	t o
Text Type	WORD
Confidence Level	99.65817
Timestamp	4 0 0 0
Detected text	succeed.
Text Type	WORD
Confidence Level	99.49745
Timestamp	4000
Detected text	G r e e d y
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.87624
Timestamp	4 0 0 0
Detected text	
	pretraining W O R D
Text Type  Confidence Level	
Confidence Level	100
Timestamp	4000
Detected text	is
Text Type	WORD

4000 called WORD 100 4000 greedy WORD 100
c a l l e d W O R D 100 4000 greedy W O R D 100
W O R D  1 0 0  4 0 0 0  g r e e d y  W O R D  1 0 0
100 4000 greedy WORD 100
4000 greedy WORD 100
g r e e d y W O R D 1 0 0
W O R D 1 0 0
100
4000
4000
b e c a u s e
WORD
99.8927
4000
it
WORD
99.85634
4000
is
WORD
99.72957
4000
a
WORD
99.17552
4000

Detected text	g r e e d y
Text Type	WORD
Confidence Level	99.92241
Timestamp	4000
Detected text	algo-
Text Type	WORD
Confidence Level	99.918526
Timestamp	4000
Detected text	5 2 6
Text Type	WORD
Confidence Level	100
O O III I I I I I I I I I I I I I I I I	100
Timestamp	4000
Detected text	CHAPTER
Text Type	WORD
Confidence Level	99.898476
Timestamp	4000
Detected text	15.
Text Type	WORD
Confidence Level	1 0 0
Timestamp	4000
Detected text	REPRESENTATION
Text Type	WORD
Confidence Level	99.83993
Timestamp	4000
Detected text	LEARNING
Text Type	WORD
Confidence Level	99.462364

Timestamp	4000
Detected text	rithm,
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	m e a n i n g
Text Type	WORD
Confidence Level	99.81998
Timestamp	4000
Detected text	that
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	it
Text Type	WORD
Confidence Level	99.991394
Timestamp	4000
Detected text	o p t i m i z e s
Text Type	WORD
Confidence Level	99.81638
Timestamp	4000
Detected text	e a c h
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	piece
Text Type	WORD

Confidence Level	100
Timestamp	4000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	4000
Detected text	solution
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	independently,
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	o n e
Text Type	WORD
Confidence Level	99.602554
Timestamp	4000
Detected text	piece
Text Type	WORD
Confidence Level	100
Timestamp	4000

Detected text	a t
Text Type	WORD
Confidence Level	100
Timestamp	4 0 0 0
Detected text	a
Text Type	WORD
Confidence Level	98.83863
T: m a a t a m n	4000
Timestamp	4000
Detected text	time,
Text Type	WORD
Confidence Level	99.94812
Timestamp	4 0 0 0
Detected text	rather
Text Type	WORD
Confidence Level	99.93568
Timestamp	4000
Detected text	t h a n
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	jointly
Text Type	WORD
Confidence Level	99.83282
Timestamp	4000
Detected text	optimizing
Text Type	WORD
Confidence Level	100

Timestamp	4000
Detected text	all
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	pieces.
Text Type	WORD
Confidence Level	99.96772
Timestamp	4000
Detected text	l t
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	is
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	called
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.67836
Timestamp	4000
Detected text	b e c a u s e
Text Type	WORD

Confidence Level	99.805046
Timestamp	4000
Detected text	t h e s e
Text Type	WORD
Confidence Level	99.92486
Timestamp	4000
Detected text	i n d e p e n d e n t
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	pieces
Text Type	WORD
Confidence Level	100
Timestamp	4000
Detected text	are
Text Type	WORD
Confidence Level	99.97713
Timestamp	4000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	4 0 0 0
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	4000

Detected text	o f	
Text Type	WORD	
Confidence Level	100	
Timestamp	4000	
Detected text	t h e	
Text Type	WORD	1
Confidence Level	100	
Timestamp	4000	
Detected text	n e t w o r k .	1
Text Type	WORD	1
Confidence Level	99.32903	
Timestamp	4000	
Detected text	Specifically,	1
Text Type	W O R D	1
Confidence Level	99.90197	
		1
Timestamp	4000	
Detected text	g r e e d y	
Text Type	WORD	_
Confidence Level	100	
Timestamp	5 0 0 0	
Detected text	deeplearningbook.org/co	ntents
Text Type	LINE	1
Confidence Level	97.558	
Timestamp	5 0 0 0	•
Detected text	+	1
Text Type	LINE	
Confidence Level	97.60785	
		1

Timestamp	5 0 0 0	
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.32679	
Timestamp	5000	
Detected text	+	
Text Type	LINE	
Confidence Level	95.67633	
Timestamp	5000	
Detected text	Greedy layer-wise pretrai	ning is
	greedy because it is a g	reedy a
Text Type	LINE	
Confidence Level	99.84588	
Timestamp	5000	
Detected text	5 2 6	
Text Type	LINE	
Confidence Level	99.71677	
Timestamp	5000	
Detected text	CHAPTER 15. REPRESEN	TATION
	LEARNING	
Text Type	LINE	
Confidence Level	99.41034	
Timestamp	5000	
Detected text	rithm, meaning that it op	timizes
	piece of the solution inde	p e n d e r
Text Type	LINE	
Confidence Level	99.97658	
		1

Timestamp	5000	
Detected text	piece at a time, rather t	han joi
	optimizing all pieces. It	is cal
	layer-wise	
Text Type	LINE	
Confidence Level	99.84755	
Timestamp	5000	
Detected text	because these independen	t piec
	the layers of the network.	Speci
	g r e e d y	
Text Type	LINE	
Confidence Level	99.71969	
Timestamp	5000	
Detected text	layer-wise pretraining prod	eeds
	at a time, training the k-	hlaye
Text Type	LINE	
Confidence Level	99.79476	
Timestamp	5000	
Detected text	keeping the previous one	
	particular, the lower laye	rs (wh
	trained	
Text Type	LINE	
Confidence Level	99.96031	
T: m a a t a m n	5000	
Timestamp	5000	
Detected text	first) are not adapted aft	
	layers are introduced. I	ısca
Text Type	unsuper- LINE	
Confidence Level	99.00477	
Confidence Level	33.00477	

Timestamp	5000	
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	97.558	
Timestamp	5 0 0 0	
Detected text	+	
Text Type	WORD	
Confidence Level	97.60785	
Timestamp	5 0 0 0	
Detected text	1 2 0 %	
Text Type	WORD	
Confidence Level	99.32679	
Timestamp	5 0 0 0	
Detected text	+	
Text Type	WORD	
Confidence Level	95.67633	
Timestamp	5 0 0 0	
Detected text	G r e e d y	
Text Type	WORD	
Confidence Level	100	
Timestamp	5000	
Detected text	layer-wise	
Text Type	WORD	
Confidence Level	100	
Timestamp	5000	
Detected text	pretraining	
Text Type	WORD	
<b>,</b> 1	1	i

99.903595
5000
is
WORD
100
5000
called
WORD
99.985695
5000
g r e e d y
WORD
99.89491
5000
because
WORD
99.90023
5000
it
WORD
1 0 0
5000
is
WORD
99.94982
5000

Detected text	a
Text Type	WORD
Confidence Level	98.65405
Timestamp	5000
Detected text	g r e e d y
Text Type	WORD
Confidence Level	99.86222
Timestamp	5000
Detected text	algo-
Text Type	WORD
Confidence Level	100
Confidence Level	100
Timestamp	5000
Detected text	5 2 6
Text Type	WORD
Confidence Level	99.71677
Timestamp	5000
Detected text	CHAPTER
Text Type	WORD
Confidence Level	99.31348
Timestamp	5000
Detected text	15.
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	REPRESENTATION
Text Type	WORD
Confidence Level	99.2832
	i

Timestamp	5000
Detected text	LEARNING
Text Type	WORD
Confidence Level	99.04468
Timestamp	5 0 0 0
Detected text	rithm,
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	m e a n i n g
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	that
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	it
Text Type	WORD
Confidence Level	99.91345
Timestamp	5000
Detected text	optimizes
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	e a c h
Text Type	WORD

Confidence Level	100
Timestamp	5000
Detected text	piece
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	o f
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	solution
Text Type	WORD
Confidence Level	99.86669
Timestamp	5 0 0 0
Detected text	independently,
Text Type	WORD
Confidence Level	99.93874
Timestamp	5000
Detected text	o n e
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0

Detected text	piece
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	at
Text Type	WORD
Confidence Level	99.82643
Timestamp	5000
Detected text	a
Text Type	WORD
Confidence Level	98.69601
Timestamp	5000
Detected text	time,
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	rather
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	t h a n
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	jointly
Text Type	WORD
Confidence Level	1 0 0

Timestamp	5000
Detected text	optimizing
Text Type	WORD
Confidence Level	99.91825
Timestamp	5000
Detected text	all
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	pieces.
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	It
Text Type	WORD
Confidence Level	99.57256
Timestamp	5000
Detected text	is
Text Type	WORD
Confidence Level	99.8524
Timestamp	5000
Detected text	called
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	layer-wise
Text Type	WORD

Confidence Level	100
Timestamp	5000
Detected text	b e c a u s e
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	t h e s e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5 0 0 0
Detected text	independent
Text Type	WORD
Confidence Level	99.83269
Timestamp	5000
Detected text	pieces
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	are
Text Type	WORD
Confidence Level	99.62011
Timestamp	5000
Detected text	t h e
Text Type	WORD
Confidence Level	99.84596
Timestamp	5 0 0 0
. mootamp	

Detected text	layers
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	o f
Text Type	WORD
Confidence Level	99.9558
Timestamp	5 0 0 0
Detected text	t h e
Text Type	WORD
Confidence Level	99.96269
Timestamp	5000
Detected text	n e t w o r k .
Text Type	WORD
Confidence Level	97.41901
Timestamp	5000
Detected text	Specifically,
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	g r e e d y
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	layer-wise
Text Type	WORD
Confidence Level	1 0 0

Timestamp	5000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.85786
Timestamp	5000
Detected text	proceeds
Text Type	WORD
Confidence Level	99.94315
Timestamp	5000
Detected text	o n e
Text Type	WORD
Confidence Level	99.4511
Timestamp	5000
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	at
Text Type	WORD
Confidence Level	99.6992
Timestamp	5000
Detected text	a
Text Type	WORD
Confidence Level	98.48981
Timestamp	5000
Detected text	time,
Text Type	WORD

Confidence Level	100
Timestamp	5000
Detected text	training
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	t h e
Text Type	WORD
Confidence Level	99.89081
Timestamp	5 0 0 0
Detected text	k-th
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	layer
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5 0 0 0
Detected text	while
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	k e e p i n g
Text Type	WORD
Confidence Level	100
Timestamp	5000

Detected text	t h e
Text Type	WORD
Confidence Level	99.89228
Timestamp	5 0 0 0
Detected text	previous
Text Type	WORD
Confidence Level	99.967636
Timestamp	5000
Detected text	o n e s
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	fixed.
Text Type	WORD
Confidence Level	99.97286
Timestamp	5000
Detected text	In
Text Type	WORD
Confidence Level	100
Confidence Level	100
Timestamp	5000
Detected text	particular,
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	t h e
Text Type	WORD
Confidence Level	100

Timestamp	5000
Detected text	lower
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	(which
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	are
Text Type	WORD
Confidence Level	99.65128
Timestamp	5000
Detected text	trained
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	first)
Text Type	WORD
Confidence Level	87.469505
Timestamp	5000
Detected text	are
Text Type	WORD

Confidence Level	99.84345
Timestamp	5000
Detected text	n o t
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	a d a p t e d
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	after
Text Type	WORD
Confidence Level	100
Timestamp	5000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	5 0 0 0
Detected text	u p p e r
Text Type	WORD
Confidence Level	99.77445
Timestamp	5 0 0 0
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	5000

Detected text	are
Text Type	WORD
Confidence Level	99.82535
Timestamp	5000
Detected text	introduced.
Text Type	WORD
Confidence Level	99.60763
Timestamp	5 0 0 0
Detected text	It
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5 0 0 0
Detected text	is
Text Type	WORD
Confidence Level	99.7531
Timestamp	5000
Detected text	called
Text Type	WORD
Confidence Level	1 0 0
Timestamp	5000
Detected text	unsuper-
Text Type	WORD
Confidence Level	99.79325
Timestamp	6000
Detected text	deeplearningbook.org/cont
Text Type	LINE
Confidence Level	97.80194
	i

t s

Timestamp	6000	
Detected text	+	
Text Type	LINE	
Confidence Level	97.60745	
Timestamp	6000	
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.328	
Timestamp	6000	
Detected text	+	
Text Type	LINE	
Confidence Level	95.6716	
Timestamp	6000	
Detected text	Greedy layer-wise pretrain	nina is
Delected text	greedy layer-wise pretrait	_
Text Type	LINE	<b>.</b>
Confidence Level	99.845665	
Timestamp	6000	
Detected text	5 2 6	
Text Type	LINE	
Confidence Level	99.71663	
Timestamp	6000	
Detected text	CHAPTER 15. REPRESEN	TATION
	LEARNING	
Text Type	LINE	
Confidence Level	99.41099	
Timestamp	6000	

I	1	1
Detected text	rithm, meaning that it op	timizes
	piece of the solution inde	pendeı
Text Type	LINE	
Confidence Level	99.97673	
Timestamp	6000	
Detected text	piece at a time, rather t	han jo
	optimizing all pieces. It	is ca
	layer-wise	
Text Type	LINE	
Confidence Level	99.84757	
Timestamp	6000	
Detected text	because these independen	t piec
	the layers of the network.	Speci
	g r e e d y	
Text Type	LINE	
Confidence Level	99.71955	
Timestamp	6000	
Detected text	layer-wise pretraining prod	eeds
	at a time, training the k-	h laye
Text Type	LINE	
Confidence Level	99.79291	
Timestamp	6000	
Detected text	keeping the previous one	s fixe
	particular, the lower laye	rs (wh
	trained	
Text Type	LINE	
Confidence Level	99.96037	
Timestamp	6000	
•	•	•

Detected text	first) are not adapted aft	er the
	layers are introduced. I	t is ca
	unsuper-	
Text Type	LINE	
Confidence Level	99.011284	
Timestamp	6000	
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	97.80194	
Timestamp	6000	]
Detected text	+	]
Text Type	WORD	]
Confidence Level	97.60745	]
Timestamp	6000	
Detected text	1 2 0 %	]
Text Type	WORD	
Confidence Level	99.328	
		]
Timestamp	6000	
Detected text	+	
Text Type	WORD	
Confidence Level	95.6716	
Timestamp	6000	
Detected text	G r e e d y	
Text Type	WORD	
Confidence Level	100	
Timestamp	6000	
Detected text	layer-wise	

Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.90317
Timestamp	6000
Detected text	is
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	c a l l e d
Text Type	WORD
Confidence Level	99.9858
Timestamp	6000
Detected text	g r e e d y
Text Type	WORD
Confidence Level	99.89481
Timestamp	6000
Detected text	b e c a u s e
Text Type	WORD
Confidence Level	99.9008
Timestamp	6000
Detected text	it
Text Type	WORD
Confidence Level	100

Timestamp	6000
Detected text	is
Text Type	WORD
Confidence Level	99.95017
Timestamp	6000
Detected text	a
Text Type	WORD
Confidence Level	98.65174
Timestamp	6000
Detected text	g r e e d y
Text Type	WORD
Confidence Level	99.86149
Timestamp	6000
Detected text	algo-
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	5 2 6
Text Type	WORD
Confidence Level	99.71663
Timestamp	6000
Detected text	CHAPTER
Text Type	WORD
Confidence Level	99.31407
Timestamp	6000
Detected text	15.
Text Type	WORD

100
6000
REPRESENTATION
WORD
99.28528
6000
LEARNING
WORD
99.04459
6000
rithm,
WORD
100
6000
meaning
WORD
100
6000
that
WORD
100
6000
it
WORD
99.91633
6000

Detected text	o p t i m i z e s
Text Type	WORD
Confidence Level	1 0 0
Timestamp	6000
Detected text	e a c h
Text Type	WORD
Confidence Level	1 0 0
Timestamp	6000
Detected text	piece
Text Type	WORD
Confidence Level	100
John Tuence Level	
Timestamp	6000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	6000
Detected text	solution
Text Type	WORD
Confidence Level	99.866486
Timestamp	6000
Detected text	independently,
Text Type	WORD
Confidence Level	99.93795

Timestamp	6000
Detected text	o n e
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	piece
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	a t
Text Type	WORD
Confidence Level	99.82636
Timestamp	6000
Detected text	a
Text Type	WORD
Confidence Level	98.696
Timestamp	6000
Detected text	time,
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	rather
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	t h a n
Text Type	WORD

Confidence Level	100
Timestamp	6000
Detected text	jointly
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	optimizing
Text Type	WORD
Confidence Level	99.91754
Timestamp	6000
Detected text	all
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	pieces.
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	It
Text Type	WORD
Confidence Level	99.5736
Timestamp	6000
Detected text	is
Text Type	WORD
Confidence Level	99.85248
Timestamp	6000

Detected text	c a l l e d
Text Type	WORD
Confidence Level	100
Timestamp	6 0 0 0
Detected text	layer-wise
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	b e c a u s e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	6000
Detected text	t h e s e
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	i n d e p e n d e n t
Text Type	WORD
Confidence Level	99.83261
Timestamp	6000
Detected text	pieces
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	are
Text Type	WORD
Confidence Level	99.62195

Timestamp	6000
Detected text	t h e
Text Type	WORD
Confidence Level	99.84602
Timestamp	6000
Detected text	layers
Text Type	WORD
Confidence Level	1 0 0
Timestamp	6000
Detected text	o f
Text Type	WORD
Confidence Level	99.95262
Timestamp	6000
Detected text	t h e
Text Type	WORD
Confidence Level	99.9625
Timestamp	6000
Detected text	n e t w o r k .
Text Type	WORD
Confidence Level	97.4189
Timestamp	6000
Detected text	Specifically,
Text Type	WORD
Confidence Level	1 0 0
Timestamp	6000
Detected text	g r e e d y
Text Type	WORD

Confidence Level	100
Timestamp	6000
Detected text	layer-wise
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.85761
Timestamp	6000
Detected text	proceeds
Text Type	WORD
Confidence Level	99.94286
Timestamp	6000
Detected text	o n e
Text Type	WORD
Confidence Level	99.45216
Timestamp	6000
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	6 0 0 0
Detected text	a t
Text Type	WORD
Confidence Level	99.6986
Timestamp	6000

Detected text	а
Text Type	WORD
Confidence Level	98.4677
Timestamp	6000
Detected text	time,
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	training
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	t h e
Text Type	WORD
Confidence Level	99.88879
Timestamp	6000
Detected text	k-th
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	while
Text Type	WORD
Confidence Level	100

Timestamp	6000
Detected text	k e e p i n g
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	t h e
Text Type	WORD
Confidence Level	99.89222
Timestamp	6000
Detected text	previous
Text Type	WORD
Confidence Level	99.96666
Timestamp	6000
Detected text	o n e s
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	fixed.
Text Type	WORD
Confidence Level	99.97503
Timestamp	6000
Detected text	l n
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	particular,
Text Type	WORD

Confidence Level	100
Timestamp	6000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	lower
Text Type	WORD
Confidence Level	100
Timestamp	6 0 0 0
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	(which
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	are
Text Type	WORD
Confidence Level	99.650856
Timestamp	6000
Detected text	trained
Text Type	WORD
Confidence Level	100
John Tuence Level	100
Timestamp	6000

Text Type  Confidence Level 87.56485  Timestamp 6000 Detected text are Text Type WORD  Confidence Level 99.843025  Timestamp 6000 Detected text not Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text adapted Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text adapted Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text upper Text Type WORD  Confidence Level 99.77459	Detected text	first)
Timestamp 6000  Detected text are  Text Type WORD  Confidence Level 99.843025  Timestamp 6000  Detected text not  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text adapted  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text after  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text after  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text the  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text the  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text the  Text Type WORD  Confidence Level 100	Text Type	WORD
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Detected text Text Type  Confidence Level  99.843025  Timestamp 6000 Detected text not Text Type WORD Confidence Level 100  Timestamp 6000 Detected text adapted Text Type WORD Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100	Timestama	6000
Text Type Confidence Level 99.843025  Timestamp 6000 Detected text not Text Type WORD Confidence Level 100  Timestamp 6000 Detected text adapted Text Type WORD Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100	-	
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Detected text Text Type  Confidence Level  Timestamp 6000 Detected text Text Type WORD  Confidence Level 100  Timestamp 6000 Confidence Level 100  Timestamp 6000 Detected text Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text Text Type WORD  Confidence Level 100  Timestamp 6000 Detected text upper Text Type WORD		
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Confidence Level 100  Timestamp 6000 Detected text after Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text upper Text Type WORD	Detected text	a d a p t e d
Timestamp 6000 Detected text after Text Type WORD Confidence Level 100  Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text upper 6000 Detected text upper Text Type WORD	Text Type	WORD
Detected text Text Type  Confidence Level  Timestamp 6000 Detected text the Text Type WORD  Confidence Level  Timestamp 6000 Detected text upper Text Type WORD	Confidence Level	1 0 0
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Timestamp 6000 Detected text the Text Type WORD Confidence Level 100  Timestamp 6000 Detected text upper Text Type WORD	Text Type	WORD
Detected text the  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text upper  Text Type WORD	Confidence Level	1 0 0
Detected text the  Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text upper  Text Type WORD	Timestamn	6000
Text Type WORD  Confidence Level 100  Timestamp 6000  Detected text upper  Text Type WORD		
Confidence Level 100  Timestamp 6000  Detected text upper Text Type WORD		
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Detected text upper Text Type WORD	Confidence Level	100
Text Type WORD	Timestamp	6000
	Detected text	u p p e r
Confidence Level 99.77459	Text Type	WORD
	Confidence Level	99.77459

Timestamp	6000
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	are
Text Type	WORD
Confidence Level	99.82653
Timestamp	6000
Detected text	introduced.
Text Type	WORD
Confidence Level	99.60215
Timestamp	6000
Detected text	It
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	is
Text Type	WORD
Confidence Level	99.75337
Timestamp	6000
Detected text	c all e d
Text Type	WORD
Confidence Level	100
Timestamp	6000
Detected text	u n s u p e r -
Text Type	WORD

Confidence Level	99.79345	
Confidence 2010.	33.73373	1
Timestamp	7000	
Detected text	deeplearningbook.org/co	ntents
Text Type	LINE	
Confidence Level	97.56989	-
Timestamp	7000	-
Detected text	+	
Text Type	LINE	
Confidence Level	97.71485	-
Timestamp	7000	•
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.33326	
Timestamp	7000	1
Detected text	+	
Text Type	LINE	
Confidence Level	93.06171	1
Timestamp	7000	-
Detected text	CHAPTER 15. REPRESEN	TATIO
	LEARNING	
Text Type	LINE	
Confidence Level	99.509026	-
Timestamp	7000	
Detected text	rithm, meaning that it op	timize
	piece of the solution inde	
Text Type	LINE	
Confidence Level	99.93319	

Timestamp	7000	
Detected text	piece at a time, rather th	nan joi
	optimizing all pieces. It	is cal
	layer-wise	
Text Type	LINE	
Confidence Level	99.87707	
Timestamp	7000	
Detected text	because these independen	t piec
	the layers of the network.	Speci
	g r e e d y	
Text Type	LINE	
Confidence Level	99.94167	
Timestamp	7000	
Detected text	layer-wise pretraining proc	eeds d
	at a time, training the k-t	h laye
Text Type	LINE	
Confidence Level	99.841965	
Timestamp	7000	
Detected text	keeping the previous one	s fixe
	particular, the lower layer	rs (wh
	trained	
Text Type	LINE	
Confidence Level	99.91004	
Time and a second	7000	
Timestamp	7000	
Detected text	first) are not adapted after	
	layers are introduced. It	is ca
T T	unsuper-	
Text Type	LINE	
Confidence Level	99.70953	

Timestamp	7000	
Detected text	vised because each layer	s trai
	an unsupervised represent	ation
Text Type	LINE	
Confidence Level	99.691	
Timestamp	7000	
Detected text	algorithm. However,	i t
Text Type	LINE	
Confidence Level	99.21178	
Timestamp	7000	
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	97.56989	
Timestamp	7000	
Detected text	+	
Text Type	WORD	
Confidence Level	97.71485	
Timestamp	7000	
Detected text	1 2 0 %	
Text Type	WORD	
Confidence Level	99.33326	
Timestamp	7000	
Detected text	+	
Text Type	WORD	
Confidence Level	93.06171	
Timestamp	7000	
Detected text	CHAPTER	

Text Type	WORD
Confidence Level	99.600815
Timestamp	7000
Detected text	15.
Text Type	WORD
Confidence Level	99.988716
Timestamp	7000
Detected text	REPRESENTATION
Text Type	WORD
Confidence Level	98.94822
Timestamp	7000
Detected text	LEARNING
Text Type	WORD
Confidence Level	99.49835
Timestamp	7000
Detected text	rithm,
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	m e a n i n g
Text Type	WORD
Confidence Level	99.93228
Timestamp	7000
Detected text	t h a t
Text Type	WORD
Confidence Level	100

Timestamp	7000
Detected text	it
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	optimizes
Text Type	WORD
Confidence Level	99.62509
Timestamp	7000
Detected text	e a c h
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	piece
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	solution
Text Type	WORD

Confidence Level	100
Timestamp	7000
Detected text	independently,
Text Type	WORD
Confidence Level	99.79934
Timestamp	7000
Detected text	o n e
Text Type	WORD
Confidence Level	99.84157
Timestamp	7 0 0 0
Detected text	piece
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	at
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	a
Text Type	WORD
Confidence Level	98.62357
Timestamp	7000
Detected text	time,
Text Type	W O R D
Confidence Level	99.92971
Timestamp	7000

Detected text	r a t h e r
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	t h a n
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	jointly
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	optimizing
Text Type	WORD
Confidence Level	99.79061
Timestamp	7000
Detected text	all
Text Type	WORD
Confidence Level	1 0 0
Timestamp	7 0 0 0
Detected text	pieces.
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	It
Text Type	WORD
Confidence Level	100

Timestamp	7000
Detected text	is
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	called
Text Type	WORD
Confidence Level	99.93513
Timestamp	7000
Detected text	layer-wise
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	b e c a u s e
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	t h e s e
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	i n d e p e n d e n t
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	pieces
Text Type	WORD

Confidence Level	100
Timestamp	7000
Detected text	are
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	7 0 0 0
Detected text	n e t w o r k .
Text Type	WORD
Confidence Level	99.30015
Timestamp	7000

Detected text	Specifically,
Text Type	WORD
Confidence Level	100
Timestamp	7 0 0 0
Detected text	g r e e d y
Text Type	WORD
Confidence Level	1 0 0
Timestamp	7000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.95213
Timestamp	7000
Detected text	pretraining
Text Type	WORD
Confidence Level	99.69067
Timestamp	7000
Detected text	proceeds
Text Type	WORD
Confidence Level	99.84308
Timestamp	7000
Detected text	o n e
Text Type	WORD
Confidence Level	99.98866
Timestamp	7000
Detected text	layer
Text Type	WORD
Confidence Level	100

Timestamp	7000
Detected text	at
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	a
Text Type	WORD
Confidence Level	98.59649
Timestamp	7000
Detected text	time,
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	training
Text Type	WORD
Confidence Level	99.87451
Timestamp	7000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	k - t h
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	layer
Text Type	WORD

1 0 0
7000
while
WORD
1 0 0
7000
7000
keeping
WORD
99.954475
7000
t h e
WORD
1 0 0
7000
previous
WORD
1 0 0
7000
o n e s
WORD
99.87528
7000
fixed.
W O R D
99.53377
7000

Detected text	I n
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	particular,
Text Type	WORD
Confidence Level	100
Time and a way	7000
Timestamp	7000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	7 0 0 0
Detected text	lower
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	(which
Text Type	WORD
Confidence Level	99.89073
Timestamp	7000
Detected text	are
Text Type	WORD
Confidence Level	99.6877

Timestamp	7000
Detected text	trained
Text Type	WORD
Confidence Level	99.888664
Timestamp	7000
Detected text	first)
Text Type	WORD
Confidence Level	97.677475
Timestamp	7000
Detected text	are
Text Type	WORD
Confidence Level	99.6626
Timestamp	7000
Detected text	not
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	a d a p t e d
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	after
Text Type	WORD
Confidence Level	99.95654
Timestamp	7000
Detected text	t h e
Text Type	WORD

Confidence Level	99.86784
Timestamp	7000
Detected text	u p p e r
Text Type	WORD
Confidence Level	99.66953
Timestamp	7000
Detected text	layers
Text Type	WORD
Confidence Level	99.93625
Timestamp	7000
Detected text	are
Text Type	WORD
Confidence Level	99.8299
Timestamp	7000
Detected text	introduced.
Text Type	WORD
Confidence Level	1 0 0
Timestamp	7000
Detected text	It
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	is
Text Type	WORD
Confidence Level	99.69878
John Tuence Level	33.03070
Timestamp	7000

Text Type WORD  Confidence Level 100  Timestamp 7000 Detected text unsuper- Text Type WORD  Confidence Level 99.634514  Timestamp 7000 Detected text vised Text Type WORD  Confidence Level 100
Timestamp 7000 Detected text unsuper- Text Type WORD Confidence Level 99.634514  Timestamp 7000 Detected text vised Text Type WORD
Detected text unsuper- Text Type WORD Confidence Level 99.634514  Timestamp 7000 Detected text vised Text Type WORD
Detected text unsuper- Text Type WORD Confidence Level 99.634514  Timestamp 7000 Detected text vised Text Type WORD
Text Type WORD  Confidence Level 99.634514  Timestamp 7000  Detected text vised  Text Type WORD
Confidence Level 99.634514  Timestamp 7000  Detected text vised  Text Type WORD
Timestamp 7000  Detected text vised  Text Type WORD
Detected text vised Text Type WORD
Detected text vised Text Type WORD
Text Type WORD
2.1
Confidence Level 100
301111111111111111111111111111111111111
Timestamp 7000
Detected text because
Text Type WORD
Confidence Level 100
Timestamp 7000
Detected text each
Text Type WORD
Confidence Level 100
Timestamp 7000
Detected text layer
Text Type WORD
Confidence Level 100
Timestamp 7000
Detected text is
Text Type WORD
Confidence Level 100

Timestamp	7000
Detected text	trained
Text Type	WORD
Confidence Level	100
Timestamp	7000
Detected text	with
Text Type	WORD
Confidence Level	99.801636
Timestamp	7000
Detected text	a n
Text Type	WORD
Confidence Level	99.20798
Timestamp	7000
Detected text	unsupervised
Text Type	WORD
Confidence Level	99.720604
Timestamp	7000
Detected text	representation
Text Type	WORD
Confidence Level	99.15636
Timestamp	7000
Detected text	learning
Text Type	WORD
Confidence Level	98.71446
Timestamp	7000
Detected text	algorithm.
Text Type	WORD

Confidence Level	100	
Timestamp	7000	
Detected text	However,	
Text Type	WORD	
Confidence Level	97.635345	
Timestamp	7000	
Detected text	i t	
Text Type	WORD	
Confidence Level	1 0 0	
Timestamp	8000	
Detected text	deeplearningbook.org/co	ntents
Text Type	LINE	
Confidence Level	97.77871	
Timestamp	8000	
Detected text	+	
Text Type	LINE	
Confidence Level	97.63125	
Timestamp	8000	
Detected text		
Text Type	LINE	
Confidence Level	81.24083	
Timestamp	8000	
Detected text	1 2 0 %	
Text Type	LINE	
Confidence Level	99.230415	
Timestamp	8000	

Detected text	I + I	
Text Type	LINE	1
Confidence Level	93.92879	
Outridence 2010.	30.020.0	
Timestamp	8000	
Detected text	CHAPTER 15. LEARNII	N G
Text Type	LINE	
Confidence Level	99.14018	
Timestamp	8000	
Detected text	rithm, meaning that it opt	timizes
	piece of the solution inde	p e n d e r
Text Type	LINE	
Confidence Level	99.903	
Timestamp	8000	
Detected text	piece at a time, rather t	han joi
	optimizing all pieces. It	is cal
	layer-wise	
Text Type	LINE	
Confidence Level	99.80878	
Timestamp	8000	
Detected text	because these independen	t piec
	the layers of the network.	. Speci
	g r e e d y	
Text Type	LINE	
Confidence Level	99.83099	
Timestamp	8000	
Detected text	layer-wise pretraining proc	eeds
	at a time, training the k-t	th laye
Text Type	LINE	
	<u></u>	<b>,</b>

Confidence Level	99.79601	
Timestamp	8000	
Detected text	keeping the previous one	s fixe
	particular, the lower laye	rs (wh
	t r a i n e d	
Text Type	LINE	
Confidence Level	99.92416	
Timestamp	8000	
Detected text	first) are not adapted aft	er the
	layers are introduced. I	
	u n s u p e r -	
Text Type	LINE	
Confidence Level	99.78944	
Timestamp	8000	
Detected text	vised because each layer	s trair
	an unsupervised represent	ation
Text Type	LINE	
Confidence Level	99.84441	
Timestamp	8000	
Detected text	algorithm. However,	it
Text Type	LINE	
Confidence Level	99.24461	
Timestamp	8000	
Detected text	deeplearningbook.org/co	ntents
Text Type	WORD	
Confidence Level	97.77871	
Timestamp	8000	

Detected text	+
Text Type	WORD
Confidence Level	97.63125
Timestamn	8000
Timestamp	8000
Detected text	
Text Type	WORD
Confidence Level	81.24083
Timestamp	8000
Detected text	120%
Text Type	WORD
Confidence Level	99.230415
Timestamp	8000
Detected text	+
Text Type	WORD
Confidence Level	93.92879
Timestamp	8000
Detected text	CHAPTER
Text Type	WORD
Confidence Level	98.99351
Timestamp	8000
Detected text	15.
Text Type	WORD
Confidence Level	99.62738
Timestamp	8000
Detected text	LEARNING
Text Type	WORD
Confidence Level	98.79967

Timestamp	8000
Detected text	rithm,
Text Type	WORD
Confidence Level	99.89607
Timestamp	8000
Detected text	meaning
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	that
Text Type	WORD
Confidence Level	99.92461
Timestamp	8000
Detected text	it
Text Type	WORD
Confidence Level	99.6252
Timestamp	8000
Detected text	optimizes
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	e a c h
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	piece
Text Type	WORD

Confidence Level	100
Timestamp	8000
Detected text	o f
Text Type	WORD
Confidence Level	99.938156
Timestamp	8000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	8000
Detected text	solution
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	independently,
Text Type	WORD
Confidence Level	99.9319
Timestamp	8000
Detected text	o n e
Text Type	WORD
Confidence Level	99.5201
Timestamp	8000
Detected text	piece
Text Type	WORD
Confidence Level	100
Timestamp	8000

Detected text	a t
Text Type	WORD
Confidence Level	99.85027
Timestamp	8000
Detected text	a
Text Type	WORD
Confidence Level	98.54926
Timestamp	8000
Detected text	time,
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	rather
Text Type	WORD
Confidence Level	99.80312
Timestamp	8 0 0 0
Detected text	t h a n
Text Type	WORD
Confidence Level	1 0 0
Timestamp	8000
Detected text	jointly
Text Type	WORD
Confidence Level	1 0 0
Timestem	8000
Timestamp	
Detected text	optimizing WORD
Text Type  Confidence Level	1 0 0
Confidence Level	100

Timestamp	8000
Detected text	all
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	pieces.
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	l t
Text Type	WORD
Confidence Level	99.63055
Timestamp	8000
Detected text	is
Text Type	WORD
Confidence Level	99.87478
Timestamp	8000
Detected text	c a l l e d
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.61483
Timestamp	8000
Detected text	b e c a u s e
Text Type	WORD

99.79047
8000
these
WORD
100
8000
8000
independent
WORD
99.82212
8 0 0 0
pieces
WORD
100
8000
are
WORD
99.991936
8000
t h e
WORD
99.959175
8000
layers
WORD
1 0 0
100
8000

Detected text	o f
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	n e t w o r k .
Text Type	W O R D
Confidence Level	98.64661
John Tuence Level	30.04001
Timestamp	8000
Detected text	Specifically,
Text Type	WORD
Confidence Level	99.76163
Timestamp	8000
Detected text	g r e e d y
Text Type	WORD
Confidence Level	1 0 0
Timestamp	8000
Detected text	layer-wise
Text Type	WORD
Confidence Level	99.83388
Timestamp	8000
Detected text	pretraining
Text Type	WORD
Confidence Level	100

Timestamp	8000
Detected text	proceeds
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	o n e
Text Type	WORD
Confidence Level	99.49571
Timestamp	8000
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	at
Text Type	WORD
Confidence Level	99.68826
Timestamp	8000
Detected text	a
Text Type	WORD
Confidence Level	98.40046
Timestamp	8000
Detected text	time,
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	training
Text Type	WORD

Confidence Level	1 0 0
Timestamp	8000
Detected text	t h e
Text Type	WORD
Confidence Level	1 0 0
Timestamp	8000
Detected text	k-th
Text Type	WORD
Confidence Level	1 0 0
Timestamp	8000
Detected text	layer
Text Type	WORD
Confidence Level	1 0 0
Timestamp	8 0 0 0
Detected text	while
Text Type	WORD
Confidence Level	99.92978
Timestamp	8000
Detected text	k e e p i n g
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Confidence Level	100
Timestamp	8000

Detected text	previous
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	o n e s
Text Type	WORD
Confidence Level	99.40855
Timestamp	8000
Detected text	fixed.
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	l n
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	particular,
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	lower
Text Type	WORD
Confidence Level	100

Timestamp	8000
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	(which
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	are
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	trained
Text Type	WORD
Confidence Level	99.60543
Timestamp	8000
Detected text	first)
Text Type	WORD
Confidence Level	97.39656
Timestamp	8000
Detected text	are
Text Type	WORD
Confidence Level	99.958275
Timestamp	8000
Detected text	not
Text Type	WORD

Confidence Level	99.983
Timestamp	8000
Detected text	a d a p t e d
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	a f t e r
Text Type	WORD
Confidence Level	100
Timestamp	8 0 0 0
Detected text	t h e
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	u p p e r
Text Type	WORD
Confidence Level	100
Timestamp	8 0 0 0
Detected text	layers
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	are
Text Type	WORD
Confidence Level	100
Timestamp	8000

Text Type WORD  Confidence Level 99.874054  Timestamp 8000 Detected text It  Text Type WORD  Confidence Level 100	
Timestamp 8000  Detected text It  Text Type WORD	
Detected text It Text Type WORD	
Detected text It Text Type WORD	
* '	
, ,	
Timestamp 8000	
Detected text is	
Text Type WORD  Confidence Level 99.95279	
Solitidence Level 33.33273	
Timestamp 8000	
Detected text called	
Text Type WORD	
Confidence Level 99.88748	
Timestamp 8000	
Detected text unsuper-	
Text Type WORD	
Confidence Level 100	
Timestamp 8000	
Detected text vised	
Text Type WORD	
Confidence Level 99.9022	
Timestamp 8000	
Detected text because	
Text Type WORD	
Confidence Level 100	

Timestamp	8000
Detected text	e a c h
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	layer
Text Type	WORD
Confidence Level	100
Timestamp	8000
Detected text	i s
Text Type	WORD
Confidence Level	99.99078
Timestamp	8000
Detected text	trained
Text Type	WORD
Confidence Level	99.89396