

Lesson #	Topic	Reading Title	Location	File Type
1	Introduction to KBAI	What is AI anyway?	T-Square Resources (AI-GoelDavies- Week1.pdf)	PDF
1	Introduction to KBAI	Russell & Norvig, Ch. 1 Section 1	T-Square Resources (Russell+and+Norvig+Ch+1-1-1.pdf)	PDF
1	Introduction to KBAI	The Cognitive Systems Paradigm	T-Square Resources (Langley-paradigm - Week2.pdf)	PDF
1	Introduction to KBAI	Four views of intelligence	<a href="http://www.pbs.org/wgbh/nova/body/what-is-intelligence.html">http://www.pbs.org/wgbh/nova/body/what-is-intelligence.html</a>	HTML
1	Introduction to KBAI	The Knowledge Level	<a href="http://www.aaai.org/ojs/index.php/aimagazine/article/download/99/98">http://www.aaai.org/ojs/index.php/aimagazine/article/download/99/98</a>	PDF
1	Introduction to KBAI	An Alternative to the Turing Test	<a href="http://arxiv.org/pdf/1410.6142v1.pdf">http://arxiv.org/pdf/1410.6142v1.pdf</a>	PDF
2	Introduction to CS7637	Putting Online Learning and Learning Sciences Together	<a href="https://www.youtube.com/watch?v=N56ghCGmWWQ">https://www.youtube.com/watch?v=N56ghCGmWWQ</a>	Video
2	Introduction to CS7637	Understanding the Natural and Artificial Worlds	<a href="http://courses.washington.edu/thesisd/documents/Kun_Herbert%20Simon_Sciences_of_the_Artificial.pdf">http://courses.washington.edu/thesisd/documents/Kun_Herbert%20Simon_Sciences_of_the_Artificial.pdf</a>	PDF
3	Semantic Networks	Winston Chapter 2, pp. 16-32	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
4	Generate & Test	Winston Chapter 3, pp. 47-50	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
5	Means-Ends Analysis & Problem Reductio	Winston Chapter 3, pp. 50-60	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
6	Production Systems	A Gentle Introduction to SOAR	T-Square Resources (GentleIntroductionToSOAR-ExtraReading_Rules_.pdf)	PDF
6	Production Systems	Winston Chapter 7, pages 119-137	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
6	Production Systems	Winston Chapter 8, 163-171	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
7	Frames	Winston Chapter 9, pages 179-182, 202-206	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
8	Learning by Recording Cases	Winston Chapter 19	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
8	Learning by Recording Cases	These Robots Learn How to Cook by Watching YouTube	<a href="http://www.techtimes.com/articles/24407/20150103/these-robots-learn-how-to-cook-by-watching-youtube-forget-m">http://www.techtimes.com/articles/24407/20150103/these-robots-learn-how-to-cook-by-watching-youtube-forget-m</a>	HTML
8	Learning by Recording Cases	The wonderful and terrifying implications of computers that can learn	<a href="http://www.ted.com/talks/jeremy_howard_the_wonderful_and_terrifying_implications_of_computers_that_can_learn">http://www.ted.com/talks/jeremy_howard_the_wonderful_and_terrifying_implications_of_computers_that_can_learn</a>	Video
9	Case-Based Reasoning	Design, innovation, and case-based reasoning	T-Square Resources (Casse Based Reasoning 3.pdf)	PDF
9	Case-Based Reasoning	Case-Based Reasoning: An Overview	T-Square Resources (case_based_reasoning_an_overview_1_.pdf)	PDF
9	Case-Based Reasoning	Kolodner, Introduction to Case-Based Reading	T-Square Resources (Case Based Reasoning 1.pdf)	PDF
9	Case-Based Reasoning	Case-Cased Reasoning: A Love Story	<a href="https://www.youtube.com/watch?v=UMJyZnfqwYQ">https://www.youtube.com/watch?v=UMJyZnfqwYQ</a>	Video
10	Incremental Concept Learning	Winston Chapter 16, pages 349-358	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
11	Classification	Stefik, Chapter 7, Part 1	T-Square Resources (Stefik- Classification Part1 _Pgs 543-556_.pdf)	PDF
11	Classification	Stefik, Chapter 7, Part 2	T-Square Resources (Stefik Classification Part 2_Pgs 588-596_.pdf)	PDF
12	Logic	Winston Chapter 13	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
13	Planning	Winston Chapter 15, pages 323-336;	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
13	Planning	Russell & Norvig Chapter 11, Section 3	Russell Norvig Section 11.3.pdf	PDF
14	Understanding	Winston Chapter 10, pages 209-220	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
15	Commonsense Reasoning	Winston Chapter 10, pages 221-228	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
16	Scripts	Schank & Abelson, Scripts, Plans and Knowledge	<a href="http://www.psychedout.org/uploads/2/7/9/7/27978279/schank_abelson_scripts_1975.pdf">http://www.psychedout.org/uploads/2/7/9/7/27978279/schank_abelson_scripts_1975.pdf</a>	PDF
17	Explanation-Based Learning	Winston Chapter 17	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
18	Analogical Reasoning	The Structure-Mapping Engine: Algorithm and Examples	T-Square Resources (Analogical Reasoning 1.pdf)	PDF
18	Analogical Reasoning	Use of design patterns in analogy-based design	T-Square Resources (Analogical Reasoning 2.pdf)	PDF
19	Version Spaces	Winston Chapter 20	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
20	Constraint Propagation	Winston Chapter 12, pages 249-266	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
21	Configuration	Stefik, Chapter 8 Parts 1	T-Square Resources (Stefik Configuration Part 1_Pgs 608-621_.pdf)	PDF
21	Configuration	Stefik, Chapter 8, Part 2	T-Square Resources (Stefik Configuration Part 2_Pgs 656-666_.pdf)	PDF
22	Diagnosis	Stefik, Chapter 9	T-Square Resources (Stefik Diagnosis _Pgs 670-690_.pdf)	PDF
23	Learning by Correcting Mistakes	Winston Chapter 18	<a href="http://courses.csail.mit.edu/6.034f/ai3/rest.pdf">http://courses.csail.mit.edu/6.034f/ai3/rest.pdf</a>	PDF
24	Meta-Reasoning	Metacognition in Computation: A selected research review	T-Square Resources (Meta Reasoning 2.pdf)	PDF
24	Meta-Reasoning	Meta-case-based reasoning: self-improvement through self-understanding	T-Square Resources (Meta Reasoning 3.pdf)	PDF
24	Meta-Reasoning	A Knowledge-Based Selection Mechanism for Control with Application in	T-Square Resources (Maeta Reasoning 1.pdf)	PDF
24	Meta-Reasoning	Metacognitive Tutoring for Inquiry-Driven Modeling	<a href="http://www.davidjoyner.net/blog/wp-content/uploads/2015/02/Joyner-Metacognitive-Tutoring-for-Inquiry-Driven-Mo">http://www.davidjoyner.net/blog/wp-content/uploads/2015/02/Joyner-Metacognitive-Tutoring-for-Inquiry-Driven-Mo</a>	PDF
25	Visuospatial Reasoning	Reasoning about Space	T-Square Resources (STEFIK Visuospatial reasoning _Pgs 432-442_.pdf)	PDF
28	Computational Creativity	The Painting Fool: Stories from Building an Automated Painter	T-Square Resources (Computational Creativity 1.pdf)	PDF
28	Computational Creativity	An Illustrated Conversation in Autism, Art and Creativity	<a href="https://www.youtube.com/watch?v=yGUyid94DYg">https://www.youtube.com/watch?v=yGUyid94DYg</a>	Video
29	AI Ethics	The Ethics of Artificial Intelligence	T-Square Resources (AIethics.pdf)	PDF
29	AI Ethics	If machines are capable of doing almost any work humans can do, what	T-Square Resources (AI Ethics - 2.html)	HTML

30	Miscellaneous	OIL: Ontology Infrastructure to Enable the Semantic Web	T-Square Resources (Semantic Web - 3.pdf)	PDF
30	Miscellaneous	The Semantic Web	T-Square Resources (p01_theSemanticWeb.pdf)	PDF
30	Miscellaneous	Semantic Web Services	T-Square Resources (Semantic Web - 2.pdf)	PDF
30	Miscellaneous	Knowledge Representation	<a href="http://www.cogsci.northwestern.edu/courses/cg207-2004/Readings/Markman_chapter_1.pdf">http://www.cogsci.northwestern.edu/courses/cg207-2004/Readings/Markman_chapter_1.pdf</a>	PDF
30	Miscellaneous	Prometheus Viral Clip #1 (TED Talk 2023)	<a href="https://www.youtube.com/watch?v=jb7gspHxZil&amp;index=2&amp;list=PL2295F7EB6A2BA479">https://www.youtube.com/watch?v=jb7gspHxZil&amp;index=2&amp;list=PL2295F7EB6A2BA479</a>	Video
30	Miscellaneous	David's Birth	<a href="https://www.youtube.com/watch?v=cWmbqH_z7jM&amp;index=3&amp;list=PL2295F7EB6A2BA479">https://www.youtube.com/watch?v=cWmbqH_z7jM&amp;index=3&amp;list=PL2295F7EB6A2BA479</a>	Video
30	Miscellaneous	Learning about Representational Modality: Design and Programming Proj	<a href="http://www.aaai.org/ocs/index.php/EAAI/EAAI13/paper/viewFile/6414/6413">http://www.aaai.org/ocs/index.php/EAAI/EAAI13/paper/viewFile/6414/6413</a>	PDF
30	Miscellaneous	The AI Revolution: The Road to Superintelligence	<a href="http://waitbutwhy.com/2015/01/artificial-intelligence-revolution-1.html">http://waitbutwhy.com/2015/01/artificial-intelligence-revolution-1.html</a>	HTML
31	Raven's Progressive Matrices	Geometry, Drawings, Visual Thinking, and Imagery: Towards a Visual Tur	<a href="http://dilab.gatech.edu/test/wp-content/uploads/2015/04/Goel-AAAI2015-VisualTuringTest-PubInfo.pdf">http://dilab.gatech.edu/test/wp-content/uploads/2015/04/Goel-AAAI2015-VisualTuringTest-PubInfo.pdf</a>	PDF
31	Raven's Progressive Matrices	Confident Reasoning on Raven's Progressive Matrices Tests	<a href="http://dilab.gatech.edu/test/wp-content/uploads/2014/11/ConfidentReasoningRavensAAAI2014Final.pdf">http://dilab.gatech.edu/test/wp-content/uploads/2014/11/ConfidentReasoningRavensAAAI2014Final.pdf</a>	PDF
31	Raven's Progressive Matrices	Visual problem solving in autism, psychometrics, and AI: the case of the	<a href="https://smartech.gatech.edu/bitstream/handle/1853/47639/kunda_maithilee_201305_phd.pdf">https://smartech.gatech.edu/bitstream/handle/1853/47639/kunda_maithilee_201305_phd.pdf</a>	PDF
31	Raven's Progressive Matrices	Analogical mapping and inference with binary spatter codes and sparse d	<a href="http://pure.ltu.se/portal/files/43047876/BlerimEmruli_2013b.pdf">http://pure.ltu.se/portal/files/43047876/BlerimEmruli_2013b.pdf</a>	PDF
31	Raven's Progressive Matrices	A Bayesian model of rule induction in Raven's progressive matrices	<a href="https://cocosci.berkeley.edu/tom/papers/Little_WMCRavens.pdf">https://cocosci.berkeley.edu/tom/papers/Little_WMCRavens.pdf</a>	PDF
31	Raven's Progressive Matrices	Reasoning on the Raven's advanced progressive matrices test with iconic	<a href="https://mindmodeling.org/cogsci2012/papers/0321/paper0321.pdf">https://mindmodeling.org/cogsci2012/papers/0321/paper0321.pdf</a>	PDF
31	Raven's Progressive Matrices	Modeling multiple strategies for solving geometric analogy problems	<a href="http://www.andrewlovet.net/Papers/CogSci12_GeoAnalogy_Final.pdf">http://www.andrewlovet.net/Papers/CogSci12_GeoAnalogy_Final.pdf</a>	PDF
31	Raven's Progressive Matrices	Solving geometric proportional analogies with the analogy model HDTP	<a href="http://cogsci.uni-osnabrueck.de/~krumnack/publications/COGSCI-2009.pdf">http://cogsci.uni-osnabrueck.de/~krumnack/publications/COGSCI-2009.pdf</a>	PDF
31	Raven's Progressive Matrices	Raven Progressive Matrices	T-Square Resources (Raven-RavenProgressiveMatrices.pdf)	